

LEARNING MADE EASY



Training & Development with AI

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Explore trailblazing
virtual technologies

Leverage AI to create personal
training experiences

Create videos and more
for lasting learning

Sheryl Lindsell-Roberts

Author of *Business Writing with AI For Dummies*

Foreword by Lorri Freifeld

Editor/Publisher of *Training* magazine

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Foreword

As a journalist in the training and development (T&D) industry for the last 18 years, I admit artificial intelligence (AI) sends shivers of unease down my spine. But from a creative standpoint, I've found it also offers infinite possibilities and opportunities (once I got past the feeling of “cheating” when using it to assist in writing or editing articles). We've all heard countless times that change is hard and knowledge is power. That is especially true when it comes to AI — and incorporating AI into employee training and development.

Many have compared the emergence of AI with the advent of the internet. Indeed, they each sparked strong reactions from both the naysayers and those quick to jump on the shiny object bandwagon. But in reality, AI is not a shiny object that will burn brightly for a few months or years and then fizzle out. Clearly, it is now interwoven into the fabric of our world — and will continue to play a bigger and bigger role every day. That means T&D professionals need to figure out how to collaborate with it to work better, faster, and smarter. As author Sheryl Lindsell-Roberts notes in Chapter 2, “AI won't replace your creativity; it will amplify it. The real powerhouse is your HI [human intelligence].”

While keeping legal, regulatory, and accuracy considerations in mind, many T&D professionals already are using generative AI to design courses; generate content; curate resources; create and narrate videos; develop assessments; role-play and coach employees; analyze learning patterns, engagement, and retention; and more. As AI continues to evolve from a supportive tool to an active collaborator, traditional T&D functions and roles will change, and new necessary competencies and skills will emerge.

“We've fundamentally redefined our mandate,” notes a member of Training magazine's Training Hall of Fame in a recent white paper, *L&D and AI: The Continuing (R)Evolution*. “We used to be ‘Learning & Development,’ but now we are ‘Learning & Careers.’ We're bringing together learning, performance management, leadership development, culture, internal mobility, career growth, skills and job architecture, and comprehensive assessments into a single, cohesive ecosystem with AI as its connecting engine.”

For many T&D professionals, the holy grail is to achieve truly personalized learning by understanding each learner's unique profile in order to construct a customized, dynamic learning plan that adapts in real time for continuous and exponential growth. AI may be the vehicle that finally helps us do that.

So use this book as a road map, start your AI engines, and get ready for the ride of your life. As the saying goes, "It's not the destination; it's the journey."

Lorri Freifeld

Editor/Publisher, Training magazine

Introduction

A caped crusader has arrived, and it isn't in Gotham City. It's right here in your world of training and development (T&D). With unmatched power and precision, artificial intelligence (AI) is a mighty force that's swooped in to overhaul the way you train, develop, learn, grow, and innovate. From crafting personalized learning journeys to building engaging gamified experiences, this dynamic alliance between human creativity and machine intelligence is reshaping T&D and unlocking extraordinary potential.

Step into a world where training adapts to each learner's needs with real-time metrics and live insights. Picture a virtual mentor guiding learners through challenges and offering just-in-time support in immersive virtual reality (VR) and augmented reality (AR) environments. With AI as your trusty sidekick, one-size-fits-all training is history. These smart systems adapt like chameleons, tailoring content to each learner and providing instant feedback as if a mentor were right there. Yet none of this works without visionary trainers like you — the human heart behind every learning journey. You are irreplaceable.

Your mission is clear: step in at your own pace. Create programs that captivate like blockbuster movies, engage like the best video games, and deliver results with a coach's precision. Learners won't just complete training — they'll dive in, curious and empowered. Think of AI as your loyal ally as Alfred is to Batman — always ready with insights, strategic advice, and support for training that's not only effective, but brilliantly engaging.

About This Book

This book abounds with best practices for T&D, showcasing how AI serves as a powerful assistant — enhancing learning, engagement, and efficiency through stories, anecdotes, concepts, themes, visuals, thoughtful humor, and a pinch of X factors. Many come from my rich and extensive T&D experience over the last 30 years. And guess what? You can use these same techniques to reimagine your T&D. Think of this book as your ultimate training blueprint. Add AI to the mix, and your training sessions will be innovative and truly next-level. No more dull, traditional methods. It's time to wow your learners with sessions that transfer knowledge and stick long after the training has ended.

As you read through the chapters, you discover how to craft prompts that spark creativity, design visuals that captivate, and select delivery methods perfectly suited to each learner. You learn to master the art of storytelling to create compelling narratives and discover how to weave them interactively into your sessions for maximum engagement. You prepare yourself to design smarter, more dynamic, and highly effective training programs that surpass traditional methods. Remember that if you come across any unfamiliar terms, just swing by the Lingo Lounge (glossary), where you find clear explanations to keep you in the know.

AI has been my trusted sidekick throughout the writing of this book. I used ChatGPT to help craft some of the playful titles, turn bulky lists into clean tables, add helpful analogies, and double-check that each chapter included all the key topics you need. And when I needed a nudge, AI offered one — everything from untangling tricky sentences to tossing in a clever twist that made a chapter shine.

Foolish Assumptions

Before I started writing this book, I made a few assumptions about you. You're new to AI but anxious to learn. You're ready dip a toe in the water and try it. You're eager to dive in.

Another assumption may be that you're afraid AI will steal your job. Let me assure you that AI will not steal your job, your thunder, or even your favorite parking spot. (Yes, it's smart, but it's not circling the lot waiting for your spot.) AI isn't the boss — it's the assistant. Think of AI as your sous-chef. It chops veggies, preps ingredients, and keeps the kitchen running smoothly, leaving the master chef — you — free to whip up your signature dishes and take all the credit for your culinary triumphs.

Like the computer revolution before it, AI isn't replacing people; it's reshaping roles and unlocking creativity. Think of it as *adjunct intelligence* — your training sidekick that edits, updates, and sparks new ideas so you can focus on what matters most: coaching, guiding, and connecting. You won't be replaced by AI — you'll be upgraded.

And remember, AI isn't standing still, and neither should you. As T&D evolves faster than your favorite streaming service drops cliff-hangers, this book hands you the map and compass to stay ahead of the curve.

Icons Used in This Book

You find icons scattered in the margins of this book like breadcrumbs leading you to treasure troves of useful information. Here's your iconic map detailing what each one represents:



REMEMBER

This icon is like tying a colorful fuzzy string around your finger so you won't forget the important stuff.



TIP

Look for this icon to find out how use of AI or other strategies can make things easier for you or make your training programs more successful.



WARNING

Ouch! Avoid these pitfalls to save yourself headaches, heartburn, embarrassments, or worse.



AI
SPOTLIGHT

This icon shines a spotlight on what AI can do. Whenever you see this icon, it means AI responded to the prompt and created its digital magic.



SHERYL
SAYS

If I had a chance to chat one-on-one with you or if you were attending one of my training sessions, these are the things I'd share with you.

Beyond the Book

This book is just the beginning of your metamorphosis. As AI continues to progress, so should your knowledge and skills. The future is exciting, and by keeping up with emerging trends and tools, you'll be ready to seize the opportunities ahead.

Connect with T&D communities in person and online to tap into even more resources, symposiums, conferences, discussion groups, and updates, many of which you find mentioned throughout this book. Also, subscribe to *Training magazine* (<https://trainingmag.com/>). It's a free, best-of-its-kind publication that shares vital insights, best practices, symposiums, innovative strategies, and much more.

In addition to the print or e-book you're reading, you get some perks online. Check out the free Cheat Sheet with helpful tips and advice. Just go to www.dummies.com and search for **Training and Development with AI For Dummies Cheat Sheet**.

Where to Go from Here

I suggest diving into Parts 1–3, then skipping around to the chapters that speak to what you’re tackling. Think of it like a playlist: You pick the tracks you want to hear.

And where does AI go from here? Honestly, no one knows for sure. It’s changing so fast that just when you think you’ve got it figured out, a new tool or idea pops up to shake things up. It can feel overwhelming, but it’s also exciting. If you’re a seasoned trainer and developer, newbie, content creator, corporate trailblazer, storyteller, team leader, facilitator, human resources professional, curator, coach, or consultant, the best approach is to stay curious, keep experimenting, and see disruption as an opportunity to innovate.

Always remember that while AI can handle the data and efficiency, it’s humans who bring empathy, motivation, and connection—things no machine can replicate. Together, your human touch and AI’s power will continue to create learning experiences that are not only effective but are so inspiring they grow and innovate along the way.

1

Revolutionizing Training and Development with AI

IN THIS PART . . .

Discover how AI can ignite every aspect of your T&D initiatives.

Explore the opportunities that lie ahead and identify where you can make the greatest impact.

Navigate AI's legal, ethical, and regulatory considerations with confidence and clarity.

- » Demystifying the basics of AI
- » Comparing the rise of AI to the internet's evolution
- » Aligning AI with T&D business goals
- » Using AI while staying in charge
- » Knowing AI's shortcomings
- » Peeking into the future of AI

Chapter 1

Igniting T&D with AI Sparks

Have you ever sat through a training session that felt like a slow march through boredom? The slides were endless, the content felt like it was built for someone — anyone — else, and feedback was nonexistent. Every minute dragged on, making the training feel less like an opportunity and more like an endless marathon.

On the flip side: think of a session where everything just clicks. You're fully engaged, concepts land perfectly, and it feels like the training was designed just for you. You're not zoning out in a sea of generic slides because every moment feels relevant. This training isn't a chore — it's an interactive challenge that keeps you motivated and moving forward. That's the magic artificial intelligence (AI) can bring to training and development (T&D).

Whether through videos, gaming, podcasting, virtual reality (VR), augmented reality (AR), or other methods, AI is making training faster, smarter, and more personalized. Imagine lessons that adapt in real time, adjusting to individual needs without endless prep work. AI insights track learners' progress and highlight where they're thriving or struggling. It's a shift from a one-size-fits-all

approach to training that truly engages learners, making knowledge stick and learning more impactful.

In this chapter, you dive into how AI is shaking up T&D, helping trainers teach smarter and learners learn better. Who knows? You may just have a few “Aha!” moments along the way as you explore how AI is flipping traditional T&D on its head. So, buckle up: Personalized learning, smarter tools, and a future full of possibilities await.

Grasping the Essence of AI

Of course, you know that AI means *artificial intelligence*, but what exactly is it? Think of AI as a really smart assistant you can chat with that can understand you and respond intelligently. (In Chapter 5, you find out how prompts can make that happen.)

When you chat with AI on your phone, tablet, or computer, it’s like talking (or writing) to a person, but instead, you’re communicating with a computer program called a *chatbot*. This chatbot has been trained to understand words, answer questions, do research, and even have conversations. It’s like having a super helpful robot buddy who’s always ready to chat, share ideas, or lend a hand when you’re looking for information.

AI supports skill building by providing instant feedback, creating personalized learning paths, and tracking progress. It suggests topics, quizzes and adapts content to keep you and your learners challenged. AI also simulates real-world scenarios, offering a risk-free space in which learners refine their skills.

Reframing AI as the New Internet Revolution

Compare AI to what the internet was in the 1990s. Back then, people were worried that the internet would replace jobs, complicate their lives, or even take over the world. Sure, it did lead to job losses. Brick-and-mortar stores continue to close down as more people shop online. Office work changed, too. Paper-based systems gave way to digital files, customer service moved from the phone to email and online forms, and entire industries had to rethink how they operated. But on the flip side, the internet has generated a whole new system of delivering goods and

services. It's created tons of jobs in e-commerce, logistics, and technology. It has also introduced jobs for app developers, online content creators, social media managers, cybersecurity specialists, and so many others.

Platforms like YouTube have given rise to an entirely new way to get information, while e-commerce giants like Amazon have created jobs in warehousing, customer service, and supply chain management. Remote work opportunities have exploded with roles for virtual assistants, freelance writers, and digital marketers. The internet didn't just replace jobs; it reshaped the workforce and opened doors to countless new opportunities.

Following similar paths

With all the unease about AI, it's following a similar path. AI is creating opportunities in AI-assisted healthcare for medical imaging specialists and precision medicine analysts, as well as in education, with roles focusing on developing AI-powered learning systems and designing personalized curricula. You'll also find growing demand in fields like law (e-discovery and contract analysis), finance (AI-driven risk modeling and fraud detection), and manufacturing (predictive maintenance and smart automation). Chapter 3 explores the path to becoming an AI pro, along with the wide range of opportunities and industries it's transforming.

Transforming T&D job opportunities

Just like the internet revolutionized the job market, creating roles for social media managers, SEO specialists, and online course creators, AI is reshaping T&D by introducing innovative jobs that redefine how people teach, learn, and grow. Here's a sampling of some new opportunities that are paving the way for a more dynamic and personalized future in T&D:

- » AI Instructional Designer
- » AI Integration & Curriculum Consultant
- » AI Ethics & Compliance Trainer
- » AI Training Project Manager
- » Chatbot, VR, & Simulation Developer
- » Learning Data & Analytics Specialist
- » AI Learning Systems Support Specialist
- » Lifelong Learning Strategist (AI Focus)
- » AI-Powered Assessment Developer

- » Prompt Engineer for Training Tools
- » UX Designer for Learning Technologies
- » Data Annotator for AI Training Content

So fear not. The potential of AI to transform industries and generate entirely new career paths mirrors the internet's impact, offering a future of innovation, reinvention, and expanded opportunities. Just like the internet of the 1990s, AI is poised to revolutionize the workforce and open new doors of opportunity. It's not about replacing workers; it's about redefining their roles in the workplace and seizing the opportunities of the future. You either embrace the change or become a dinosaur.

Forging a Path to Success



SHERYL
SAYS

Here's a quick example of AI in action: I originally titled this chapter "Transforming T&D with AI." You'll probably agree that's not exactly gripping. So, I prompted ChatGPT for a little creativity, asking it for five options for "Transforming T&D with AI" starting with a gerund. (Learn about prompting in Chapter 5.) Following is a small nibble of what AI can offer. I could have prompted for more, but No. 1 hit the mark.



AI
SPOTLIGHT

1. Igniting T&D with AI Sparks
2. Transforming Learning through Intelligent Systems
3. Reimagining Development with Data and Design
4. Bridging Human Insight and Machine Power
5. Shaping the Future with Adaptive Training

The following sections don't simply describe what AI can do; they highlight strategic power moves. With AI riding shotgun, your initiatives don't just run smoothly; they soar. Innovation meets efficiency, creating a future where your organization thrives at the speed of change.

Enhancing employee management

By leveraging AI's employee management capabilities, organizations can foster a more stable, skilled, and secure work environment in the following ways:

- » **Adaptive learning and skills analysis:** AI customizes training, adjusts pacing, and identifies skill gaps for targeted development.
- » **AI predictive analytics:** AI's analytics identify turnover risks and enable proactive HR interventions.
- » **Cross-functional training:** AI created virtual simulations exposing employees to different roles, thereby fostering adaptability.
- » **Personalized employee experience:** AI tailors benefits, career growth, and recruitment for better job satisfaction and retention.
- » **Workplace safety and risk management:** AI predicts hazards, monitors compliance, and enhances safety training with VR/AR. (Find out more about each in Chapters 16 and 17, respectively.)

Gaining the competitive advantage

Staying competitive in today's market means embracing innovative technologies — and that includes how companies train and develop their workforce. AI plays a key role not just in tracking industry trends and competitors' strategies, but also in shaping smarter training programs. By analyzing skill gaps, personalizing learning experiences, and forecasting future needs, AI helps organizations build agile, future-ready teams.

With AI-driven analytics, businesses can streamline operations, boost efficiency, and spark innovation — both in how they work and how they learn. This dual impact enables them to adapt quickly to market changes while setting new benchmarks for delivering exceptional products and services. For example, companies like Netflix use AI not only to track content trends but also to train teams based on real-time audience insights and global preferences.

Extending markets and customer relations

Expanding into new markets and building strong customer relationships are key to driving business growth and staying competitive. With AI, organizations can strategically tap into global markets, connecting with diverse customer segments and creating new revenue streams. This means rolling out targeted marketing campaigns and personalized engagement strategies that resonate with new and existing customers/clients.

This is where AI-powered T&D makes a difference. By equipping employees with the skills and knowledge to understand global market trends, engage customers more effectively, and deliver top-tier service, organizations empower their teams to navigate new markets with confidence. Ongoing learning fueled by AI doesn't just enhance customer satisfaction and loyalty — it also drives long-term success, sustainable growth, and profitability.

Optimizing operational efficiency

Boosting operational efficiency is essential for increasing productivity and reducing costs. Organizations can achieve this by minimizing errors through quality control, streamlining workflows to save time, and enhancing job performance with effective task management and smart resource allocation. By continuously refining processes and adopting technology-driven solutions, businesses boost output and improve customer satisfaction.

T&D combined with AI plays a vital role in this effort. Targeted training programs focused on quality control, process improvement, and task management will equip employees with the skills to put these strategies into practice. Continuous professional development keeps teams updated on the latest technologies and best practices, enabling them to lead ongoing improvements. This focus on employee growth not only enhances individual performance but also elevates overall organizational efficiency and effectiveness, securing long-term success.

Enhancing skill development

Building strong skills is key to empowering employees and maintaining an edge in today's fast-paced market. Organizations focus on developing job-specific expertise, enhancing technical abilities, and sharpening soft skills through targeted training programs and workshops — fostering a culture of continuous learning and growth.

With AI-powered tools, companies can deliver personalized learning by identifying skill gaps and recommending tailored training. AI also enables adaptive learning, adjusting content in real time to fit each employee's pace and needs. This makes skill development more efficient and ensures employees stay current with the knowledge and competencies their roles demand.

By integrating AI into T&D, businesses make their programs more effective, responsive, and impactful. The result is a highly skilled workforce that drives innovation, maximizes performance, and maybe even enjoys compliance training — all while keeping the organization a smart step ahead of the competition.

Nurturing leadership and management skills

Strong leadership and effective management are the cornerstones of organizational success. To support this, organizations invest in training programs that help employees develop leadership qualities and enhance management skills for supervisors and managers at every level, from frontline supervisors to senior executives. These initiatives empower leaders to inspire their teams, foster innovation, reduce turnover, and achieve strategic goals with confidence and clarity.

By analyzing individual leadership styles and management techniques, AI-driven tools provide personalized feedback and development plans tailored to each leader's needs. Advanced simulations and AI-powered scenario-based training allow leaders to practice decision-making and problem-solving in realistic, risk-free environments, sharpening their skills for real-world challenges.

AI also tracks progress and evaluates training effectiveness, offering insights to refine leadership development programs continuously. While incorporating AI into these initiatives, organizations can cultivate adaptive, forward-thinking leaders who are equipped to tackle complex challenges and steer their teams toward sustained success.

Personalizing onboarding and orientation

Smooth onboarding and a solid orientation program help new hires feel like part of the team from day one. When companies take the time to offer clear training, useful resources, and ongoing support, new employees can hit the ground running. A thoughtful approach doesn't just speed up the learning curve — it also boosts engagement and helps people stick around for the long haul. Here are some of the ways in which AI can help accomplish this:

- » Providing an interactive, adaptive learning experience that adjusts based on the employee's progress and feedback.
- » Offering real-time support, answering questions, and guiding new hires through the initial stages of their integration.
- » Creating a more efficient and engaging onboarding process that helps new employees quickly acclimate to their roles and become productive members of the team.
- » Using gamification techniques to make learning fun and motivate employees through challenges, rewards, and progress tracking.
- » Streamlining the onboarding process and supporting long-term employee satisfaction and retention.

Encouraging continuous learning

Encouraging continuous learning is vital for building a skilled, adaptable workforce. Organizations can foster a culture of growth by offering ongoing opportunities like workshops, seminars, games, podcasts, and online courses that help employees stay current and expand their expertise. This not only empowers them to innovate and adapt but also drives progress toward organizational goals.

AI can strengthen this commitment by delivering personalized learning experiences. By analyzing skills, interests, and goals, AI-powered platforms recommend tailored training, provide real-time feedback, and adjust content to suit individual needs. They can also identify emerging trends and skill gaps, helping organizations keep training programs relevant. Integrating AI into T&D strategies creates a more dynamic, responsive learning environment — fueling growth and keeping both employees and businesses competitive.

Processing emotions

AI is getting better at “reading the room,” but it’s not there yet. By analyzing tone, facial expressions, and behavior, it’s learning to respond in more human ways (though it still struggles with awkward silences and office birthday parties). In T&D, this emotional awareness helps personalize learning. If a learner seems frustrated (maybe sighing or hesitating) AI can offer encouragement, simplify the material, or suggest a break. When someone’s engaged and confident, AI might dial up the challenge to keep them motivated. The result? Smarter, more responsive training that meets learners where they are.

Strengthening compliance and safety training

Ensuring compliance with regulations and promoting workplace safety are non-negotiable priorities for organizations. Through comprehensive T&D programs focused on regulatory requirements and safety protocols, organizations reduce risks, enhance employee well-being, and maintain legal compliance. These safety training initiatives foster a culture of vigilance and responsibility, creating a secure environment where employees can perform their duties confidently and without undue risk.

AI strengthens T&D efforts by automating content delivery, tracking regulatory changes, and analyzing safety data to identify potential hazards. AI-driven simulations and virtual reality provide immersive, hands-on learning experiences that

boost understanding and engagement. This proactive integration of AI and T&D ensures a safer, more compliant workplace — protecting both employees and the organization.

Supporting career development

Supporting career development is crucial for employee satisfaction and retention. Organizations provide pathways for career advancement through mentorship programs, coaching opportunities, and professional development initiatives. By investing in employee growth and offering clear opportunities for promotion, organizations cultivate loyalty and commitment, ultimately enhancing productivity and fostering a motivated and engaged workforce. Career development programs also reduce turnover costs and support succession planning.

AI can improve career development by creating personalized growth plans for each employee based on their skills, goals, and performance. AI platforms can analyze individual strengths and suggest relevant training, mentorship, and career paths within the company. It can also provide real-time feedback and insights to help employees track their progress and make better decisions. By using AI, organizations can offer more targeted support, boosting employee engagement, retention, and success.

Promoting cross-functional training

Cross-functional training initiatives enable employees to gain diverse skills and perspectives across different departments or functions within the organization. By facilitating opportunities for employees to collaborate and learn from colleagues in other areas, organizations foster a multidisciplinary approach to skills development that enhances teamwork, innovation, and problem-solving capabilities. Cross-functional training also prepares employees for future leadership roles by broadening their understanding of organizational dynamics and promoting an inclusive approach to achieving business objectives.

AI enhances cross-functional training by analyzing employees' skills and career goals to recommend personalized learning. It facilitates virtual collaboration, tracks participation, and identifies leadership potential. This approach improves knowledge-sharing, team cohesion, and organizational understanding.

SHIFTING FROM SKEPTICISM TO NECESSITY: A LESSON FROM HISTORY

Although AI has really taken off in the past few years, the idea behind it isn't exactly new. The concept began to take shape in the mid-20th century and has been evolving for decades. In 1950, mathematician Alan Turing introduced his fascinating concept of a “universal machine” that could simulate the behavior of any other machine. His idea was a huge steppingstone for the technology that's now called AI.

Then, in 1956, the term *artificial intelligence* was coined at the Dartmouth Summer Research Project on Artificial Intelligence, which was basically a big launch event for AI. Early computer scientists like John McCarthy, Marvin Minsky, and Allen Newell gathered at the Dartmouth workshop to share their visions of machines that could mimic HI. They focused on symbolic reasoning and problem-solving, leading to some of the first AI programs that were able to play chess or solve math problems.

But, like anything else, AI has had its ups and downs. During some of the tough times, known as *AI winters*, progress slowed because of high expectations and limited computing power. It's interesting to think about how skepticism has been a part of every journey of technology. For instance, Ken Olsen, who cofounded pioneering computer manufacturer Digital Equipment Corporation, once famously said, “There is no reason for any individual to have a computer in their home.” Fast-forward to today, and computers are an essential part of everyday life. Fortunately, with advancements in machine learning, neural networks, and big data in the 21st century, AI has seen a major revival.

Although the technology has come a long way, human curiosity about creating intelligent machines has deep historical roots. And it's still evolving. Take Apple's AI, for example. Now, as you're writing an email, you can adjust its tone in the application instead of copying and pasting your text into a separate chatbot. This integrated AI makes the whole process smoother and more user-friendly. Who knows? Soon, AI may be able to nudge you to take a coffee break before you realize you need one!

So, while some people may still think AI is just a passing trend, history has shown that skepticism often gives way to necessity — just like with computers and the internet.

Avoiding Overreliance on AI

As powerful as AI is, relying on it too much can sometimes lead to *facepalm* moments. (You know, when your hand slaps your forehead like the emoji but with a little more flair.) I found this out the hard way when I was on a tight deadline

and turned to my trusty AI tool for a quick fix. Well, “trusty” turned out to be a bit of a stretch. For what felt like forever (okay, it was 25 minutes), I kept getting the same annoying message. I discovered that even AI needs an occasional time-out!



AI
SPOTLIGHT

We’re experiencing exceptionally high demand. Please try again later.

When I’m under extreme pressure, there’s no room for excuses. So, I rolled up my sleeves and fixed my issue the old-fashioned way — using my trusty HI. And the best part is, I can always rely on *my* intelligence when I’m in a jam. It never (or rarely) takes a break and doesn’t need a time-out.



SHERYL
SAYS

I had a wake-up call about how tech-dependent I’ve become when my husband and I took a trip to Mallorca, Spain. I rented a car, got an international driver’s license, and had international cell phone service activated. (Or so I thought.) The provider even sent me a text saying they’d charged my credit card for international service. Well, guess what? When we landed in Spain, I had no international service. That meant no GPS, no way to communicate, and no translation app. My phone was basically an expensive paperweight.

Sure, we had the rental car’s GPS, so getting around wasn’t a problem. But every time we got in the car, my brain whispered, *What if we need help? What if the car breaks down? What if we’re stranded on some desolate road in the middle of nowhere?* And the worst-case scenario: *What if we have an accident?* None of these thoughts ever crossed my mind before the era of GPS and smartphones. Back then, it was, *Oh look, sheep in the road! Let’s take a picture! We made a wrong turn — let’s see what we can find down this way.* Now it’s, *How would we explain this to Spanish emergency services without Google Translate?*

Anyway, when we got home, I called my cell provider to find out what went wrong. Turns out, the person I spoke with had charged my card but forgot the tiny detail of actually activating the international service. Apparently, they thought I wanted to donate money to the International Fund for Frustrated Travelers.

This incident got me thinking about everyone’s increasing reliance on technology. It’s a powerful tool — until it fails. Overreliance on technology can leave us stranded, like a car that runs out of gas in the middle of nowhere. The key is balance: Technology should enhance, not replace, our skills. When it works, the journey is seamless; when it doesn’t, we must successfully navigate on our own.



REMEMBER

So, here’s the lesson: The next time you’re preparing for a training session, pack your flare gun and a homing pigeon (metaphorically speaking) and be prepared for the unexpected.

- » **Use technology as a tool, not a crutch.** It should enhance your skills, not replace them.
- » **Embrace adaptability.** When the equipment goes down, your ability to pivot will shine.
- » **Be confident in your abilities.** No matter how smart the technology is, you're smarter.

Understanding AI's Achilles' Heel

Achilles was a legendary Greek hero who was unstoppable in battle, except for one tiny problem: his heel. As told in Homer's *Iliad*, his mother dipped him in the River Styx to make him invincible but held him by the heel, leaving that one spot unprotected. That weakness eventually led to his downfall, giving us the term "Achilles' heel."

Like Achilles, AI is a powerhouse — it can help you work smarter, faster, and communicate more clearly. But if you rely on it too much or use it blindly, it can trip you up. Overdependence on AI can dull your judgment, blur your critical thinking, or lead to mistakes when the information it gives you is wrong or biased. The key? Use AI as your sidekick, not your crutch. Real strength comes from combining smart technology with sharp human insight.



WARNING

While AI is a powerful tool, it has limitations. It often struggles with originality, context, and emotional depth. It operates within predefined boundaries that can restrict innovation. Unlike humans, AI can't make intuitive leaps, form interdisciplinary connections, or assess ethical and moral values in a meaningful way. It relies heavily on existing data, which makes it less adaptable to cultural shifts, evolving language, and personal nuances. Furthermore, it can unintentionally spread misinformation or disinformation, especially when its outputs are based on flawed, outdated, or biased sources.

Have you ever heard the phrase *garbage in, garbage out (GIGO)*? It's a simple but powerful expression in computing: If you feed a system bad data, you'll get bad results (see Figure 1-1). This concept has been around since the early days of computers.

FIGURE 1-1:
Garbage in,
garbage out.



Peter Hermes Furian/Adobe Stock Photos



WARNING

Here's how this applies to AI: If the AI tool is fed bad data, it will spit out questionable, incorrect, or incomplete results. Plus, different AI tools may produce different responses. One AI tool may be good at summarizing articles, while another excels at creative writing. And beyond that, some may focus on data analysis, while others specialize in customer support or even language translation. The capabilities can vary widely depending on what the AI was designed to do. Also, biases in the training data can lead AI to amplify stereotypes or omit important perspectives.



REMEMBER

While AI brings tremendous power to T&D, human intelligence (HI) remains the X-factor. Take medical imaging, for example: AI can quickly detect patterns in X-rays or MRIs like a supercharged assistant, but it's the human expert who interprets those findings in context, drawing on patient history, symptoms, and subtle cues that AI might miss. Similarly, in the legal profession, AI can analyze vast amounts of case law and identify relevant precedents in seconds, yet it's the lawyer's judgment and experience that shape how that information is applied to each unique case. The best results are when AI's speed meets human insight, experience, and judgment. Whether in healthcare, law, or corporate upskilling, it's this partnership that leads to smarter, more effective learning and delivery.

Looking to the Future

Not only will AI become smarter in the future, but the technology will be significantly more affordable and accessible. Right now, the big tech giants are leading the way, pushing the limits of innovation. But as more countries and companies join the race, competition will ignite breakthroughs that drive costs down, making AI available to everyone. What was once exclusive to large enterprises will soon be within reach for businesses of all sizes, revolutionizing industries, including T&D.

Imagining exciting new prospects

The future of AI in T&D isn't just about making training cheaper or more accessible; it's about fundamentally transforming how humans acquire and apply knowledge. What seems futuristic today may be tomorrow's reality. History is full of once-unbelievable ideas that became part of everyday life. Need a reminder? Here are just a few things that made the leap from fiction to reality:

- » **Video calls:** Once imagined in sci-fi shows like *The Jetsons*, they're now part of daily life.
- » **Self-driving cars:** A staple of sci-fi movies, they're now being tested in cities around the world.
- » **AI-generated content:** From writing and art to music and video, AI is now a creative partner.
- » **Voice assistants:** Talking to machines like Siri, Alexa, or Google Assistant would've seemed far-fetched decades ago.
- » **Facial recognition:** A futuristic security measure in spy thrillers, now used in smartphones, airports, stores, banks, and workplaces.
- » **Smart homes:** Lights, thermostats, and appliances that respond to your voice or phone, just like in old sci-fi pics.
- » **Robotic surgery:** Precision robotic tools assist doctors during surgery, offering steady hands and faster recovery.
- » **3D printing:** Building real objects from digital designs, including prosthetics, tools, and even food.
- » **Wearable tech:** From fitness trackers to smartwatches that monitor your health in real time.
- » **Space travel:** Not just landing on the moon, but now commercial space flights with companies like SpaceX and Blue Origin.
- » **Drones:** Used for deliveries, photography, farming, and even emergency response.
- » **Language translation devices:** Real-time translators now exist, making multilingual communication a snap.
- » **Biometric security:** Fingerprint and retina scanning once reserved for spy films are now unlocking your phone and doors.

Securing your place in the future

In a November 10, 2024, article, Nichol Bradford, executive-in-residence for AI+HI at SHRM, stated:

The landscape of learning and development (L&D) is undergoing an unprecedented transformation, driven by the rise of AI. Today, the global L&D market is valued at more than \$350 billion, and over the next five years, it's expected to grow significantly, fueled by advancements in artificial intelligence that promise to make corporate learning more adaptable, relevant, and personalized than ever before. This evolution is essential as organizations face the challenge of equipping their workforce with the skills needed for a fast-changing world.

So, how does the Training Emporium (which I cover in Chapter 2) secure your place in the future? Imagine this: You're sitting at your desk when an email from your manager pops up: *Congrats! You're now leading the new project to incorporate AI technology into our onboarding curriculum.* You walk into their office and say, "I didn't volunteer for this." "No, you didn't," they reply, "but you're the best person for the job and you've been voluntold [volunteered + told]". In this moment, you're faced with a choice: Step up or step aside.

AI is reshaping the way people work, and those who adapt will thrive. Those who resist may find themselves left behind or left out. The reality is simple: *Be ready or be gone.* Your role is evolving, and the opportunity to welcome this change is in your hands whether you volunteer or are voluntold. The Training Emporium (at whichever level you enter) can prepare you to thrive.

Knowing why AI won't replace people

AI is about collaboration, not substitution. It enhances what people do, amplifies their strengths, and supports their creativity, but it can't stand alone. It still relies on the uniquely human touch — intuition, empathy, and critical thinking — to truly make an impact. So keep these reassuring facts in mind:

- » **AI is a tool, not a leader.** It can generate ideas, summarize content, and provide insights, but it doesn't have real-world wisdom, intuition, or the ability to inspire people. Leadership, vision, and ethical decision-making will always be human characteristics.
- » **Emotional intelligence matters.** Even the most sophisticated AI can't truly empathize or connect on a deep, human level. In T&D, for instance, learners respond best to stories, humor, and real-life experiences — things AI can create and mimic, but not authentically live.

- » **Humans will shift into higher-value roles.** Instead of spending time creating slide decks or grading quizzes, trainers will design experiences, coach learners, and personalize learning journeys. AI will handle the admin work, but humans will drive engagement and impact.
- » **AI lacks true creativity and critical thinking.** Sure, AI can generate content, but it doesn't innovate from scratch — it remixes what already exists. The big, bold, game-changing ideas will still come from humans exploring uncharted territory.
- » **The future is about AI-human collaboration.** The most successful professionals won't be the ones who resist AI, but the ones who figure out how to use it effectively. Just like calculators didn't replace mathematicians, AI won't replace trainers, strategists, or leaders — it'll just make them more smarter and more efficient.

IN THIS CHAPTER

- » Recognizing how AI can add sizzle to T&D
- » Tapping into the power of AI — from smart browsing to going all in
- » Checking out the AI tools
- » Selecting what's right for you

Chapter 2

Exploring the AI Training Emporium

Welcome to the AI Training Emporium, a vibrant shopping experience designed for trainers like you, where you can explore how AI can complement your unique skills and add even more sparkle to your training sessions. As a trainer and training developer, you bring an electrifying spark to your sessions with your amazing blend of perspectives, experiences, and emotional depth. Your personal flair is what transforms ordinary training into an extraordinary, thought-provoking experience. With AI doing the heavy lifting, you can add even more of your special touch (the quirky style, artistic vision, or subtle insights only you can bring) to make your training sessions truly shine! AI can help by streamlining prep work, sparking new ideas, and adapting resources in real time so you can focus on what you do best: infusing every session with the kind of energy, empathy, and originality that no algorithm can replicate.



REMEMBER

AI isn't a magic wand that conjures instant content. It's more like an extension of your creative brain. When you provide the prompts and ideas (flip to Chapter 5 to discover how to write effective prompts), it's like having an idea factory at your fingertips. AI can help you brainstorm by opening up new angles, organizing scattered thoughts, and suggesting connections you may not have considered. AI won't replace your creativity; it will amplify it. The real powerhouse will always be *your* human intelligence (HI).

In this chapter, you explore AI through three shopping styles: window-shopping, trying before buying, or going all in. No rush, no pressure — just your pace, your way. And don't miss the treasure trove at the end that's packed with AI tools to boost your skills and spark new ideas, no matter where you are on the journey.

Browsing the AI Showcase

Start by entering the 1st floor and casually browsing the AI showcases. Here you can enjoy a variety of engaging displays that introduce the fundamentals of AI. Watch short introductory videos. Read intriguing articles about how AI is transforming industries. Experience augmented reality (AR). Speak to a virtual rep. This is your chance to get a glimpse of what AI has to offer without making any commitments — just explore at your own pace.

Discovering AI you already use

Although AI may feel like the new kid on the technology block, the concept isn't. For years, you've been using search engines (with AI behind-the-scenes) to find information. You've been relying on GPS to navigate while driving, with AI helping you calculate the best route and adjust for traffic in real time. You've also been using AI for personalized recommendations on streaming platforms, like Netflix or Hulu, and benefiting from customer service chatbots that assist you with inquiries or issues. (A chatbot is like a super-fast, super-patient friend who never gets tired of answering your questions or steering you in the right direction.)

Think of AI like a search engine on steroids. Instead of bombarding you with endless links like traditional search engines, AI cuts to the chase — summarizing, brainstorming, and even helping you organize your thoughts. It's like having a helpful assistant always ready to be of service.

Keeping up with industry trends

By staying on top of the latest tools, you're unlocking a treasure chest of opportunities for your professional growth. Think of it as upgrading your tool kit — exploring fresh ways to work, diving into new collaborations, and tapping into AI's superpowers to open up all sorts of exciting career paths.

Want to experience virtual reality (VR), for example? Head to a VR arcade, an entertainment center, or even your local retail store that sells technology. You can also check out theme parks, public libraries, or community centers that are adding

VR to their mix. Oh, and don't forget VR meetups, events, and Part 5 right here in this book.



REMEMBER

Even if you're not ready to use AI tools now, understanding their potential can inspire you to think creatively about how they may integrate with your existing T&D methods. At some point, this exploration can lead to discovering new techniques or strategies that enhance your productivity, creativity, and overall effectiveness as a trainer.

Building a knowledge base for future decisions

Understanding AI and its applications can sharpen your problem-solving skills. As you begin to grasp how AI tackles different writing challenges or streamlines processes, you can apply similar problem-solving techniques to your own work, enhancing your ability to address complex issues and find creative solutions.

AI technology will continue to advance, so be aware of its capabilities and potential applications so you can make informed decisions in the future. Whether you choose to adopt AI tools or simply want to stay informed about their impact on your industry, this knowledge will help you navigate your options with confidence.



TIP

Consider attending conferences, webinars, or professional meetups to hear how others are applying these tools in real-world settings. Sometimes the best inspiration comes from seeing what's possible in action.

MY FORAY INTO AI

I'd been soaking up wisdom from the back seat, and curiosity about AI tools started to bubble within me. While I wasn't quite prepared to use AI, I decided to dabble in some playful stuff. I selected ChatGPT because I'd heard so much about it and wrote the following prompt: "Give me a few witty lines about a humble cup of coffee." Lo and behold, the chatbot accepted my challenge and returned this delightful gem:

In a parallel universe, coffee cups are sentient beings. They gather in secret societies, plotting to overthrow the humans who keep them perpetually empty. Their motto: "Espresso yourself!" Hope this brings a smile to your face!

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Wow! I recall thinking. *This is really cool.* I flirted with the chatbot, and it returned my affection. I was hooked. That was my first foray into the world of AI. Soon after, I was dipping not just one toe, but both feet into the water.

I even used AI to help me write this book. (Talk about practicing what you preach!) It's been my tireless (caffeine-free) assistant, helping me craft a richer, more engaging experience for you. Here's how I put AI to work to make this book even better:

- **Fine-tuning text:** When something I wrote didn't quite hit the mark, I prompted AI to polish it. (Of course, I always reworked the responses to make them authentically mine.)
- **Crafting headings and titles:** For example, I wanted something better than a boring old *glossary*, and AI suggested something much more fun: the *Lingo Lounge* (which appears in the back of this book).
- **Converting bullet points into tables:** I'd create the lists, and prompt AI to organize them into tables, saving me time, effort, and page count.
- **Adding analogies and humor:** On occasion I asked AI to serve as a creative sidekick, sprinkling in metaphors and a touch of wit to keep things lively.
- **Researching topics I may have missed:** To ensure I didn't miss anything important, I prompted AI to verify details and fill in any gaps. It did come up with a few gems.

The results (and I hope you agree) are proof that when human creativity and AI tools team up, the potential is endless.

Trying Before Buying

Step up to the 2nd floor if you're feeling a bit adventurous. Head to the Sampling Section, where you can test AI tools and applications firsthand. Check out ChatGPT (<https://chatgpt.com/>), Copilot (<https://copilot.microsoft.com/>), or Perplexity (<https://www.perplexity.ai/>), as well as other AI tools listed later in this chapter. It's like trying on different clothing before making a purchase. Testing various tools and apps allows you to get a feel for how AI can work for you, giving you a taste of its practical applications without a commitment.

Choosing the right chatbot is like selecting the appropriate training program for your team — both require a thoughtful assessment of needs and capabilities. Just as you would evaluate a training program based on how well it aligns with your team's skills and objectives, selecting a chatbot involves ensuring it meets

your specific requirements and integrates seamlessly with your existing systems. A chatbot's ability to handle complex queries and adapt to various scenarios is comparable to the depth and relevance of your training content. Both choices impact effectiveness and efficiency; a well-suited chatbot, like a well-designed training program, enhances your performance and supports your long-term goals.

Chatbots often come with a range of features beyond just answering questions. Explore these features to see how they can benefit you. For example, some chatbots can assist with scheduling, provide real-time data updates, or even generate content. Experiment with these functions to understand their potential uses. To get a comprehensive view of what the chatbot can do, test its limits by asking complex or nuanced questions. This will help you identify its strengths and areas where it may fall short. Understanding its limitations will be useful for deciding how to effectively integrate the chatbot into your workflow.

Identifying your goals

Start by determining what you hope to achieve with a chatbot. Are you looking to streamline information retrieval, enhance customer interaction, or simply explore how AI works? Defining your goals helps you choose the right chatbot for your needs and evaluate its effectiveness. Although ChatGPT is the most commonly used chatbot, you can find a list of some other favorites later in this chapter (see “Checking out the tools”).

Engaging with the chatbot

Begin with simple a prompt — verbally or in writing — to see how it responds. For example, try asking, *What are some effective icebreakers for a team training session?* or *Can you share tips for improving employee engagement training?* Pay attention to how quickly it responds and the quality of the insights it provides. This helps you gauge how on target your prompts are and how well the chatbot provides relevant, accurate, and timely information. (Don't forget to check out Chapter 5 on becoming a prompt pro, because the quality of the chatbot's response depends on how you ask.)

Evaluating your interactions and integrating feedback

Reflect on your experience with the chatbot. Consider factors like ease of use, relevance of the responses, and overall user experience. Assess how well the chatbot meets your needs and whether it saves you time or enhances your efficiency. If you're using the chatbot in a professional setting or as part of a project, gather

feedback from other users or stakeholders. Their insights can help you understand the chatbot's impact and identify areas for improvement.

Adjusting and optimizing

Think about how you're using the chatbot and make some tweaks based on your experience. Maybe you'll want to rephrase your questions, try out some new features, or adjust the settings to better suit your needs. When it comes to T&D, consider how the chatbot can step up your game — like helping you build interactive scenarios, generate customized content, or give instant feedback. A little fine-tuning can go a long way in making a chatbot a powerful tool for engaging learners and boosting knowledge retention.

Documenting what you discover

Keep track of what you've observed while using the chatbot. It's like keeping a diary of your AI journey. This can be as simple as a running note on your phone or a shared doc with your team. Jot down the challenges you run into, the cool features you discover, and the ways the chatbot improves your workflow. Not only will this help you get the most out of the chatbot now, but it'll also come in handy if you decide to explore more advanced AI tools down the road. Plus, having a record of your experience makes it easier to share your insights with your team or reflect on how far you've come.

Expanding gradually

Once you're comfortable with using a chatbot, consider expanding your use of AI tools. For example, you might try specialized chatbots designed for training content, AI-driven design platforms to create visuals, or tools that analyze learner feedback to give you instant insights. AI can also help you draft handouts, create quizzes, generate role-play scenarios, translate materials for multilingual groups, and even suggest ways to make your slides clearer and more engaging.

Gradually increasing your use of AI will help you build confidence and proficiency, while also showing you new ways technology can lighten your load. Before long, you'll have a whole toolkit of AI companions working behind-the-scenes — leaving you free to focus on what matters most: creating memorable, human-centered learning experiences.

DIFFERENCES BETWEEN A CHATBOT AND A COMPREHENSIVE AI TOOL

Chatbots and comprehensive AI tools are both AI applications, but they differ in their capabilities and scope.

Chatbot

A *chatbot* is a software program that simulates human conversation and interacts with users through a chat interface. It's designed to understand and respond to queries or commands (prompts) in a conversational way. Chatbots are found across various communication channels, such as websites, messaging apps, or voice assistants (like Amazon's Alexa or Apple's Siri). Here are some key characteristics of a chatbot:

- **Ability to simulate human conversation:** Provides a natural language interface for users to interact with.
- **Task-specific:** Handles specific tasks or provides information within a defined domain.
- **Rule-based or AI-powered:** Follows predefined decision trees, using techniques like natural language processing and machine learning to understand and generate responses.

Comprehensive AI Tool

A *comprehensive AI tool* is a more robust, all-encompassing software platform that incorporates advanced AI capabilities to perform complex tasks or solve more sophisticated problems. These tools often leverage machine learning, deep learning, and other AI techniques to provide advanced functionalities.

- **Advanced capabilities:** Performs complex tasks such as image recognition, natural language understanding, predictive analytics, or autonomous decision-making.
- **Data-driven:** Employs large datasets to learn patterns, make predictions, or generate insights.
- **Customizability:** Can be customized or trained on specific datasets to adapt to specific business needs or domains.
- **Scalability:** Designed to handle large-scale data processing and analysis, making it suitable for enterprise-level applications.

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In summary, while a chatbot focuses on simulating human conversation and providing specific information or performing tasks within a defined domain, a comprehensive AI tool encompasses a broader range of advanced AI capabilities and is designed to tackle more complex issues such as analyzing large datasets, generating reports, creating marketing content, or even assisting with coding. Keep in mind that AI can summarize existing knowledge but doesn't do original research.

Making the Investment

You're now on the 3rd floor — the top level — and ready to make an investment of time and/or money. Visit the Premium Experience section, where you can dive into comprehensive AI tools and resources. Here you can access AI tools, detailed courses, and in-depth projects designed for serious learners. Whether you're building complex models, working on large-scale data analysis, or pursuing specialized AI applications, this is the ultimate destination when you're ready to engage deeply and professionally with AI.

Checking out the tools

Think of these chatbots like different coffee shops. You may get a latte that's rich and creamy at one place, while another shop makes it bold and strong. Even though they're both serving coffee, the experience can be totally different. Chatbots work the same way. Each one has been programmed a little differently. Some may be more fact-focused, while others are chattier or more creative. If you try several, you'll start to see which one fits your needs and style best.

Plus, some chatbots are better at certain tasks than others. One may be great for brainstorming ideas, while another excels at explaining complex topics in simple terms. By testing a few, you can find the perfect digital conversation partner for whatever you need. Here's an alphabetic listing of some of the many chatbots out there:

- » Anyword (<https://anyword.com/>): An AI-powered copywriting tool that generates and optimizes marketing content using predictive analytics to improve engagement and conversion rates.
- » Articulate 360 (<https://www.articulate.com/>): Integrated AI features for learning module creation.
- » Buffer (<https://buffer.com/ai-assistant/>): AI-powered platform for planning, writing, and managing social media content.

- » ChatGPT (<https://chatgpt.com/>): Conversational AI tool for writing, brainstorming, research, and problem-solving.
- » Claude (<https://claude.ai/>): AI assistant for drafting, summarizing, and analyzing documents with a natural writing style.
- » Copy.ai (<https://www.copy.ai/>): AI writing platform that generates marketing, blog, and business content.
- » Grammarly (<https://app.grammarly.com/>): AI-driven tool for improving grammar, clarity, and tone in writing.
- » Jasper (<https://www.jasper.ai/>): AI content creation tool for marketing, branding, and training materials.
- » Lumen5 (<https://lumen5.com/>): Creates AI-assisted video content from text, useful for training.
- » Miro AI (<https://miro.com/>): For design/visual collaboration, useful in training development environments.
- » Neuraltext (<https://www.neuraltext.com/>): AI-enhanced design and collaboration tools for visual project development.
- » Notion (<https://www.notion.so/>): Productivity and collaboration workspace with AI tools for writing, notes, and organization.
- » Otter.ai (<https://otter.ai/>): Real-time AI transcription and note generation which can support training assessments and follow-up.
- » Perplexity (<https://www.perplexity.ai/>): AI research assistant that delivers concise, sourced answers to complex questions.
- » Rytr (<https://rytr.me/>): AI writing assistant for generating short-form content like emails and social posts.
- » Simplified (<https://simplified.com/>): AI platform for creating, designing, and automating marketing and written content.
- » Wordtune (<https://www.wordtune.com/>): AI writing enhancer that rewrites and refines sentences for clarity and tone.
- » Writesonic (<https://writesonic.com/>): AI content creation platform for blogs, ads, and product descriptions.

Additionally, check out NotebookLM (<https://notebooklm.google/>). This tool is typically used for a more structured, often technical purpose, like helping with data analysis, creating content, or assisting in writing tasks. It's often part of an environment where you interact with it to generate or organize information, and it may support more complex long-form tasks.



REMEMBER

The field of chatbots and AI assistants is expanding at lightning speed, with new AI tools emerging so quickly, they may just outpace your blink. Some may even have new names by the time you read this. Case in point: I mentioned the AI tool *Bard* in my book *Storytelling in Presentations For Dummies* (Wiley), but by the time the book was published, the name had already been changed to Google Gemini. And who knows, a few tools listed here may disappear into the digital ether, never to be heard from again.

Selecting what's right for you

When choosing an AI writing tool, here are a few key factors to consider:

- » **Type of content:** Consider the type of content you're looking to create. AI writing tools specialize in various kinds of content, so it's crucial to find one that fits your needs. For example, do you need a chatbot, content generator, summarizer, language translator, or proofreader and editor?
- » **Language model:** Choose an AI writing tool that uses the best language models. At the moment, systems like ChatGPT that are powered by OpenAI GPT-4 are the most advanced.
- » **Fluency:** Make sure the AI writing tool you choose can understand and produce content in your writing style and language. Many tools write in English only, but some tools, such as SEO.AI (<https://seo.ai/>), can write perfect copy in hundreds of other languages.
- » **Original content:** In a Google-dominated world, original content is vital. Make sure the AI writing tool you choose is capable of producing unique and creative content.
- » **Ease of use:** Many tools are complex to use, requiring you to follow confusing steps and apply different templates to generate even the simplest pieces of content.
- » **Pricing:** Prices vary among providers, so evaluate the tool's features and capabilities to find the best value for your money.



TIP

You may want to check the reviews or community feedback for AI tools you're interested in. You can find many helpful sites by searching online for "assessing AI tools."

Choosing between free or a fee

When you’ve settled on an AI tool and you’re deciding between a free or paid account, it’s helpful to know what you’re getting with each. Table 2-1 provides a quick comparison of various features to help you decide which option best suits your needs. While free accounts are great for basic use, paid plans unlock advanced features, faster responses, and more flexibility.

TABLE 2-1 For Free or a Fee

Feature	Free Account	Paid Account
Access to features	Limited features; basic tools only.	Full feature access, including advanced tools.
Token limits	Shorter responses; fewer messages per session.	Longer, detailed responses; extended sessions.
Speed and priority	Slower response times; lower server priority.	Faster responses; higher server priority.
Availability of tools	May lack tools like image generation or web access.	Access to advanced tools and integrations.
Customization	Minimal or no customization options.	Tailored outputs and saved preferences.
Usage limits	Strict daily, monthly, or hourly limits.	Higher or unlimited usage caps.
Data privacy and support	Basic privacy and limited support.	Enhanced privacy and priority support.

IN THIS CHAPTER

- » Figuring out if T&D is right for you
- » Choosing a path forward
- » Future-proofing your career with AI as a partner
- » Understanding how industries are using AI
- » Creating a resume that spotlights your worth
- » Tapping into professional resources

Chapter 3

Shaping Your Future as a T&D Extraordinaire

Thinking about a career in training and development (T&D)? Growing in your existing role? Or making a move to a new industry? Wherever you are on this journey, you get to create and deliver learning experiences that help employees grow and succeed with the power of AI to personalize, streamline, and amplify learning. One week, you might be designing a virtual reality (VR) simulation to adapt to each learner's pace, an augmented reality (AR) onboarding experience, or a gamified challenge that uses AI analytics to track progress. The next week you could be facilitating a workshop, hosting a live webinar, or recording a

short podcast where AI tools help you analyze engagement, provide real-time feedback, or enhance interactivity.

If you enjoy blending creativity, technology, and problem-solving, the development side lets you innovate and make learning memorable, using AI to design smarter, more effective programs. At the same time, the training side gives you the chance to connect with people, energize a room, and guide learners, with AI supporting you by identifying gaps, suggesting resources, or personalizing experiences.

In T&D, design and delivery go hand in hand. You can create the program then bring it to life, ensuring it actually helps learners grow. This chapter will show you how to leverage both T&D skills and AI tools to start or extend your career in a wide range of industries.

Assessing Whether T&D Is Your Calling

As a T&D professional you don't just train and develop; you also light sparks, open doors, and help people see what's possible. But before embarking on your journey, take a moment to reflect on your skills, interests, and the passions that ignite your excitement. This isn't about checking off boxes or finding the "right" answer — there are no right or wrong answers. Instead, it's about discovering what energizes you. Which parts of your work do you excel at and which areas may need a bit more attention? Use the following self-assessment as a chance to connect with what truly matters to you, aligning your needs and passions as you prepare for what could be a rewarding career in T&D.



REMEMBER

If this self-assessment shows that T&D isn't for you, the reflection will still give you valuable insights you can carry into any career path you choose.

T&D CAREER SELF-ASSESSMENT

MOTIVATION TRAINING

- **Passion for Helping Others**

- ☐ I'm passionate about helping others develop their skills.
- ☐ I find satisfaction in seeing people grow and succeed.

- **Long-term Career Goals**

- ☐ Being a trainer aligns with my career aspirations.
- ☐ I'm prepared for the potential career trajectory and opportunities in this field.

KNOWLEDGE AND SKILLS

- **Subject Matter Expertise**

- ☐ I'm knowledgeable and skilled in the area I want to train in.
- ☐ I'm committed to continuing my education to stay current.

- **Communication Skills**

- ☐ I can explain complex concepts in a clear and engaging way.
- ☐ I'm comfortable speaking in front of groups.

- **Qualifications and Experience**

- ☐ I have relevant qualifications or certifications.
- ☐ I have practical experience in the field I wish to train.

PERSONAL QUALITIES

- **Patience and Empathy**

- ☐ I can remain patient with learners who may struggle with the material.
- ☐ I can show empathy and support to help them overcome challenges.

- **Handling Feedback and Criticism**

- ☐ I'm open to receiving feedback on my training methods.
- ☐ I use constructive criticism to improve my skills.

- **Handling Difficult Situations**

- ☐ I'm able to manage conflicts or resistance effectively.
- ☐ I'm equipped to address various learner needs and issues.

- **Ongoing Learning and Adaptation**

- ☐ I continually update my knowledge and skills.
- ☐ I stay current with industry trends and best practices.

- **Adaptability to Learning Styles**

- ☐ I'm able to tailor my approach to meet the needs of diverse learners.
- ☐ I understand how to use various teaching methods effectively.

ORGANIZATIONAL SKILLS

- **Planning and Organization**

- ☐ I can create structured training programs and materials.
- ☐ I'm good at managing time and keeping track of progress.

- **Preparedness for Responsibilities**

- ☐ I'm ready to handle the administrative and logistical aspects of training.
- ☐ I can manage the potential stress and demands of the role.

If you determine that T&D is where your talents and interests are, buckle up for an adventure and prepare to engage with compelling ideas and uncover insights that will propel your understanding of the field forward.

Choosing a Career Path and Specialty

T&D is undergoing a transformative shift, unlocking innovative career paths that blend traditional expertise with cutting-edge technology. To understand this shift, consider the value of a simple water bottle. At the grocery store it might cost \$1; at the gym, \$3; and at a concert, \$5 or more. The bottle itself hasn't changed — only the environment has. The same is true for a career in T&D. Your skills, knowledge, and creativity have value, but that value grows depending on where and how you apply them. As a trainer and developer, you might create programs that cost little if they're generic, but when you tailor them with technology like gamification, VR, AR, or coaching, *their* impact and *your* value multiplies.

Specialists have lots of room to explore new roles as organizations look for creative ways to boost learning, engagement, and performance. Future-proofing your career in T&D means staying flexible and open to where the field is headed. Whether it's diving into strategy, leveraging new tech, or stepping into specialized areas like coaching or program design, you can shape your path to meet emerging workforce trends. Following are just a few exciting T&D roles to mull over, grouped into categories.

T&D roles in strategy and leadership:

- » **Chief learning officer (CLO):** Oversees corporate learning strategies, integrating AI and data analytics to foster continuous learning and professional development.
- » **Talent development strategist/consultant:** Works with leadership to align development plans with business goals, identify skill gaps, and build workforce roadmaps.
- » **Performance improvement consultant:** Assesses organizational performance and recommends training interventions, using AI tools to identify areas for improvement and track progress.
- » **Change management specialist/consultant:** Guides organizations through transitions related to new tools, processes, or structures, ensuring employees are supported and trained.

AI and technology-focused T&D roles:

- » **AI training specialist/curriculum developer:** Designs and delivers training programs that help employees understand AI technologies and apply them in their roles.
- » **Corporate trainer for AI:** Specializes in training employees on specific AI applications relevant to their jobs.
- » **Learning technologist:** Implements and manages learning management systems (LMS) and other technology tools that facilitate training and development.
- » **Digital learning architect:** Designs seamless online learning ecosystems, integrating platforms and content to create accessible and engaging learning experiences.
- » **VR/AR learning specialist:** Uses VR and AR to create immersive training environments, allowing employees to practice complex tasks in simulated settings.
- » **Gamification specialist:** Creates engaging training programs by integrating game mechanics and competition to boost motivation and participation.

T&D roles in learning design and experience:

- » **Instructional designer:** Designs online and blended learning experiences that incorporate AI-driven content and assessment tools.
- » **Learning experience designer (LXD):** Creates comprehensive, engaging learning experiences across touchpoints, working with user experience (UX) designers and content creators.
- » **Curator:** Selects and organizes resources, courses, and tools to meet learners' needs, ensuring content is relevant and impactful.

T&D roles in data and analytics:

- » **Learning data analyst:** Uses data to assess the effectiveness of training programs, measure engagement and performance, and provide actionable insights.
- » **Data analyst for learning and development:** Analyzes training data to measure return on investment (ROI) and inform future strategies.

T&D roles focused on specialty and inclusion:

- » **Equitable-practices trainer:** Designs and delivers training that promotes inclusive leadership and organizational dynamics.
- » **Talent development consultant (focused on AI and tech integration):** Leverages AI to enhance learning outcomes and optimize workforce development.

Exploring the Industries That Await You

Imagine yourself at a busy crossroads, where paths lead to countless industries, organizations, and opportunities. How do you know which is right for you? Perhaps you've always had an interest in healthcare, where training helps professionals stay sharp and provide lifesaving care. Or maybe the fast-paced world of technology excites you, where you could design programs that keep employees ahead of the curve.

Now, add AI into the picture. In manufacturing, AI-driven training can improve safety, streamline processes, and help workers adapt to new technologies on the production floor. In life sciences, AI can support cutting-edge research, enhance compliance training, and prepare professionals to work with advanced tools that push the boundaries of discovery. Together, these innovations open doors to personalization, efficiency, and breakthroughs that didn't exist before.

Every path offers something different — new challenges, new teams, new ideas. Wherever you take your talents, you can shape how people understand, apply, and expand their knowledge. So many industries, including the following, are waiting for your unique skills and offer a chance to make a meaningful impact wherever learning and growth are needed:

- » **Banking:** AI is transforming banking by enhancing customer experiences with personalized recommendations, chatbots, and fraud detection.

Training is essential to ensure staff can confidently apply AI in tasks like risk management, compliance, and transaction processing. Predictive analytics training enables staff to understand market trends and customer needs. Ongoing training will be crucial to adapting to evolving technologies and maintaining efficiency.
- » **Education:** AI is transforming education by personalizing learning and improving administrative efficiency. AI-driven platforms create customized lesson plans and adaptive learning paths, while intelligent tutoring systems

offer real-time feedback. AI can streamline grading and scheduling, allowing educators to focus on teaching.

Training educators to integrate AI effectively is key, with VR and AR offering immersive, hands-on experiences to practice using AI tools in realistic classroom settings.

- » **Healthcare:** Innovations in AI are reshaping healthcare by improving patient care, streamlining operations, and advancing research. AI tools enhance diagnostics, analyze medical data, and aid in early disease detection and personalized treatment. They also optimize hospital operations like scheduling and resource allocation, reducing costs, and accelerating new treatments.

Training healthcare professionals to use these AI tools is crucial for maximizing their impact. Training programs, enhanced by VR, provide immersive, hands-on simulations that allow workers to practice AI-driven diagnostics and patient management in a risk-free environment. This ensures healthcare teams are confident and well-prepared to integrate AI into their work, improving patient care and operational efficiency.

- » **Life sciences:** AI's impact on life sciences underscores the need for targeted training for professionals in the field. As AI aids in personalized medicine, drug discovery, *genomics* (gene mapping and DNA sequencing), and disease detection, training programs must ensure that employees are proficient in using AI technologies like predictive analytics and medical image analysis. This enables professionals to interpret data effectively, improve clinical trials, and enhance patient care.

Moreover, understanding AI's role in accelerating drug development and treatment processes will be crucial in keeping staff adaptable and up-to-date with advancements in the field.

- » **Manufacturing:** AI is revolutionizing manufacturing by streamlining production, improving efficiency, and enhancing precision through robots and automation. Predictive maintenance reduces downtime, while AI-driven analytics help manage supply chains, inventory, and scheduling, boosting productivity and reducing costs.

Training is essential for effective AI use, with AR and VR offering immersive, hands-on experiences. Workers can simulate tasks like operating AI robots or troubleshooting systems in a risk-free environment, gaining practical skills to thrive in smart factories and interconnected systems.

- » **Retail:** AI is revamping retail by personalizing customer experiences, perfecting inventory management, and improving operations. AI-powered recommendation engines offer product suggestions and tailored shopping experiences, while inventory tools forecast demand and reduce waste. AI chatbots enhance customer service, and computer vision — a field of AI that enables computers to interpret and understand images or videos — powers in-store analytics and automated checkout.

Training retail professionals to use these AI tools is essential for driving sales, improving customer satisfaction, and streamlining workflows. Additionally, AR plays a key role in training by providing immersive, hands-on experiences. AR helps employees practice using AI tools and navigate virtual store scenarios, boosting their confidence and ensuring they're well-prepared to integrate technology into daily operations.

- » **Technology:** AI's impact on the tech industry directly relates to training by highlighting the need for continuous learning and upskilling. As AI tools automate tasks and improve processes in software development, project management, and business operations, tech professionals must be trained to effectively use these technologies.

Training programs should focus on AI integration into workflows, enhancing skills like data analysis, decision-making with AI insights, and understanding AI-driven automation. By staying current with AI advancements, professionals can ensure they remain competitive and adapt to evolving industry demands, making ongoing training essential in the tech field.

- » **Transportation and logistics:** AI is reshaping transportation and logistics by refining routes, improving maintenance, and enhancing supply chain management. It can analyze traffic, weather, and schedules to reduce fuel use, while automation and real-time tracking streamline warehouse operations and lower costs. AI-powered *autonomous* (self-driving) vehicles and drones offer innovative solutions for moving goods and people.

Training professionals to use these AI tools is crucial, with AR and VR providing immersive simulations for practicing routing, maintenance, and warehouse management. This training prepares workers to harness AI, boosting efficiency and supporting the shift toward automation.



REMEMBER

With opportunities spanning so many fields, you have the chance to shape not only your future, but the future of learning, development, and performance wherever your skills take you. And with AI by your side, you can supercharge your programs, uncover insights faster, and bring a whole new level of creativity and impact to the way people learn and grow.

Picking a Work Option That Suits You

Whether you're diving in full-time, crafting the perfect work-life balance with a part-time role, or striking out as a freelancer, contractor, or consultant, a career in T&D has plenty of paths to explore. Think of it like choosing your own adventure in a theme park — each path has its thrills, twists, and challenges. Table 3-1 gives you the lowdown.

TABLE 3-1 **Assessing Various Work Arrangements**

Role	Type of Work	Payment Structure	Client Interaction	Work Duration	Autonomy and Flexibility	Insurance Coverage
Full-time employee	Permanent, integrated into the company	Salary + benefits	Single employer	Long-term (indefinite)	Limited autonomy, set hours	Typically employer-provided health and dental insurance
Part-time employee	Permanent, reduced hours	Hourly/salary + potential benefits	Single employer	Ongoing but fewer hours	More flexible hours than full-time	May have partial or no benefits, depending on employer
Freelancer	Short-term projects, self-employed	Per project or hourly	Multiple clients	Short-term, project-based	High flexibility, autonomy	No employer-provided insurance; must secure one's own
Contractor	Long-term projects, self-employed or through agency	Single client	Months to years	Moderate flexibility, less autonomy	No employer-provided insurance; may need to secure one's own or use agency benefits if available	
Consultant	High-level advisory role, self-employed or through firm	High fees, per project	Typically multiple clients (often specific industries)	Project-based, often short-term	High autonomy, focused on strategy	No employer-provided insurance; must secure one's own

Getting Helpful Certifications

Although no single college degree is universally required to become a trainer or developer, the following certifications can significantly bolster your career, equipping you with the skills and knowledge to stay ahead in a highly competitive market. Here are a few gems to check out:

- » **Association for Talent Development (ATD):** Focuses on advancing the field of talent development by providing resources, research, and professional growth opportunities to help organizations and individuals improve performance through learning, training, and development.

ATD certifications are globally recognized and designed to help T&D professionals demonstrate their expertise, enhance their skills, and contribute to organizational success.
- » **eLearning instructional design certificates:** Offered by universities or platforms like Coursera or LinkedIn Learning, these credentials focus on creating engaging digital learning experiences, increasingly important in hybrid and remote environments.
- » **International Society for Performance Improvement (ISPI) certified performance technologist (CPT):** Emphasizes measurable performance improvement, blending learning and performance consulting.
- » **Project management certifications (PMP or CAPM):** Useful for T&D professionals managing large-scale learning initiatives, ensuring programs are delivered on time and within scope.
- » **SHRM (Society for Human Resource Management) learning and development specialty credential:** Focuses on aligning training programs with organizational HR strategy and improving employee development outcomes.
- » **Training Accreditation Program (TAP):** Ensures that training programs meet industry standards of quality, competency, and effectiveness, while promoting continuous improvement and compliance with relevant regulations.



REMEMBER

Each certification adds credibility, sharpens your expertise, and equips you to deliver more effective learning experiences across industries.

Merging Your T&D Skills with AI Applications

AI opens up a whole new world of possibilities for dynamic T&D programs. As a trainer, you can guide learners through virtual training sessions so immersive that they feel completely real, while gamification keeps them engaged with interactive challenges that let them “level up” their skills in a game like way. Podcasts (Chapter 14) and training videos (Chapter 15) add another layer, offering bite-sized, on-the-go learning perfect for busy schedules.

But that’s just the beginning. VR and AR allow learners to experience lifelike simulations or enhance real-world environments with digital overlays. Meanwhile, emerging technologies like blockchain (Chapter 18) and quantum computing are reshaping how organizations approach data security, transparency, and problem-solving in training. Part 4 will take you on a journey into dynamic dimensions of training, so buckle up!

Knowing AI’s role and yours

With great technology comes great responsibility. Think of AI as a high-tech safety harness. It can help learners reach new heights, spot gaps, and guide progress — but only if you, the trainer and developer, use it thoughtfully.

Most AI platforms prioritize privacy and data protection, but it’s up to you to ensure experiences are effective, fair, and safe, keeping trust front and center while supporting learner growth.

Navigating AI with confidence

You don’t have to navigate AI safety alone. Learn from professional organizations like ATD or the Learning Guild, take online courses on AI ethics, follow industry blogs, and explore platform tutorials and peer communities for practical guidance. (Find out more about these opportunities at the end of this chapter.) Following are some key areas to focus on:

- » **Bias detection and mitigation:** Regularly check AI models to ensure fair treatment for all learners.
- » **Robustness testing:** Ensure systems handle unexpected inputs and resist adversarial attacks.
- » **Transparency standards:** Understand how AI makes decisions to build trust.

- » **Data privacy protocols:** Follow privacy regulations and handle learner data responsibly.
- » **Human oversight:** Maintain opportunities for human intervention in critical decisions.
- » **Continuous monitoring:** Detect and address issues early before they escalate.
- » **Documentation and reporting:** Keep thorough records of processes and decisions.
- » **Incident response plans:** Prepare for AI-related issues with clear response strategies.



REMEMBER

By combining your T&D expertise with AI, and applying it responsibly, you can design programs that are not only cutting-edge but also ethical, safe, and transformative for learners.

Elevating Your Résumé for Today's Business World

A résumé is more than a record of what you've done; it's a marketing tool that shows how you drive results. For T&D professionals, that means going beyond describing programs you've delivered. Employers want to see the business impact you've made — whether that's boosting retention, improving performance, saving costs, or helping teams adopt new technologies. A sharp, targeted résumé helps you stand out as someone who doesn't just train people or develop training programs, but one who strengthens the organization's bottom line.

Using keywords that attract attention

Resumes aren't just read by hiring managers; they're scanned by both people and applicant tracking systems in a matter of seconds. To stand out, you need to spotlight the hot buttons that prove your impact and relevance. For example, saying you "delivered training" isn't enough. Show how you drive business goals, embrace new tools, and keep employees engaged. That's where keywords come in to show you're aligned with what organizations need. And if you can back it up with numbers — such as dollars saved, revenue generated, or percentages of improvement — even better. Here are the kinds of wins that grab attention:

- » **Business impact:** Show how training improved productivity, retention, or performance — for example, reducing turnover by 15% or increasing team efficiency by 20%.
- » **Technology in learning:** Highlight LMS, eLearning platforms, AI, VR/AR, gamification, and microlearning — such as cutting onboarding time by 30% through digital tools.
- » **Data and analytics:** Use metrics, dashboards, and ROI to prove training effectiveness — for instance, demonstrating a \$200K cost savings or a 10% revenue boost from better sales training.
- » **Leadership development:** Build programs that prepare future leaders and managers, such as increasing internal promotions by 25% and reducing external hiring costs.
- » **Change management:** Support smooth adoption of new systems, processes, or culture — for example, accelerating system adoption rates by 40%.
- » **Employee engagement and retention:** Design programs that keep people motivated and connected, such as cutting attrition costs by \$500K through stronger engagement strategies.
- » **Inclusive learning:** Weave equity and inclusion into training strategies — for instance, improving cross-cultural team collaboration scores by 18%.
- » **Agility and adaptability:** Create learning that keeps up with fast-changing business needs, such as launching new skills training that reduced down-time by 12%.
- » **Collaboration and stakeholder buy-in:** Partner with executives and managers to align learning with strategy — for example, securing funding by showing projected \$1M annual savings.
- » **Global and hybrid workforces:** Tailor training for multicultural, remote, and blended environments — boosting global compliance completion rates to 95%, for example.



REMEMBER

One of the key buzzwords today is AI. Show how you've used AI to improve your T&D. For example, "Streamlining proposal development by integrating AI-powered research tools, reducing prep time by 30%." And remember to highlight your own learning by listing professional development like "OpenAI Prompt Engineering Workshop (2025)." They demonstrate that you stay ahead of emerging trends and bring fresh value to the workplace.

Letting AI be your sidekick

Don't forget to let AI be your sidekick. It can personalize suggestions to make your resume pop with better phrasing, stronger action verbs, style and tone, and a sharper focus on achievements that actually matter to employers. AI can help you highlight measurable wins, like increased learner engagement, revenue saved, or efficiency improved, turning dry bullet points into proof of impact. It can also suggest industry-specific keywords so your resume isn't just good — it's also optimized to pass through applicant tracking systems.

Maximizing your reach

Polishing your résumé is only half the job. The other half is putting it where decision-makers will see it. T&D professionals have several platforms tailored to their field, along with broader networks that expand visibility. Be strategic about where you share:

- » **LinkedIn:** The most powerful platform for showcasing your résumé, networking, and engaging with industry leaders.
- » **ATD Job Bank (Association for Talent Development):** A dedicated hub for training and development roles.
- » **SHRM Career Center (Society for Human Resource Management):** Ideal for positions that blend HR, leadership, and L&D.
- » **Learning Guild Job Board:** Focused on eLearning, instructional design, and workplace learning careers.
- » **Training Magazine's Job Board:** Specialized in training and performance improvement opportunities.
- » **Industry-Specific Job Boards:** Many sectors like healthcare, tech, and finance post-targeted L&D openings.
- » **Professional Networking Groups:** Local ATD chapters, LinkedIn groups, and online learning communities often circulate job leads.



TIP

By strategically sharing your résumé across these platforms, you increase your chances of connecting with the right opportunities and getting noticed by the decision-makers who matter most. Visibility, combined with a polished résumé, puts you in the driver's seat of your T&D career.

Finding Professional Resources

Joining organizations and subscribing to publications is like unlocking a treasure chest full of gold and silver — especially if you want to dive into the AI world. These resources keep you informed about the latest AI tools, trends, and applications in T&D, point you to seminars and workshops where you can practice using AI in real-world learning situations, and connect you with other trainers exploring AI's potential. It's not just professional development — it's a way to build your AI-savvy T&D toolkit, spark new ideas, and stay at the forefront of innovation in your field.

Organizations

Most of these organizations have local chapters, so they provide lots of opportunities for networking and access to resources, professional development, certifications and credentials, industry recognition, mentorship, job openings, and collaboration.

- » **Association of Business Training Professionals:** ABTP provides a community for business trainers to exchange ideas, tools, and best practices.
- » **Association for Talent Development:** ATD focuses on training and development professionals, offering resources, certifications, and networking opportunities.
- » **International Accreditors of Continuing Education and Training:** IACET focuses on quality continuing education and training, offering accreditation and resources.
- » **International Society for Performance Improvement:** ISPI aims to improve performance in organizations through training, networking, and sharing best practices.
- » **Learning Guild:** This community of practice for learning professionals provides resources, events, and networking opportunities.
- » **National Association of Professional Trainers:** NAPT offers support and resources specifically for trainers, including certification programs and networking.
- » **Professional Trainers Association:** PTA focuses on providing a network for trainers and access to training resources.

- » **Society for Human Resource Management:** Although it's primarily focused on HR, SHRM offers resources relevant for trainers working within organizations.
- » **Training Magazine Network:** This online community offers webinars, resources, and networking opportunities for trainers.

Publications

Reading books and journals or subscribing to a professional training publication helps you stay abreast of the latest trends and insights, practical resources, expert opinions, continuous learning, networking opportunities, diverse perspectives, and discounts and special offers.

- » **The ASTD Handbook for Workplace Learning Professionals:** A comprehensive reference on best practices and strategies for workplace learning.
- » **Harvard Business Review:** Offers articles on management, leadership, and organizational behavior, providing insights for trainers and business professionals.
- » **International Journal of Training and Development:** Focuses on research and theory in training and development across various industries.
- » **Journal of Continuing Education in the Health Professions:** Provides insights applicable to adult education and training practices for healthcare professionals.
- » **Journal of Workplace Learning:** Covers research and practices related to learning and development in the workplace.
- » **Learning Solutions magazine:** Offers articles and resources related to eLearning, instructional design, and technology in training.
- » **Performance Improvement Quarterly:** Focuses on research and practices in performance improvement and workplace learning.
- » **Talent Development magazine:** Published by ATD, it offers insights, articles, and resources for training professionals.
- » **Training & Development magazine:** A publication from the Australian Institute of Training and Development that offers insights on training methodologies and case studies.
- » **Training magazine:** Focuses on best practices, trends, and strategies in employee training and development.

Additional resources

In addition to organizations and publications, you can tap into a variety of resources to enhance your skills and effectiveness. You can find out about these resources from networking, social media, online communities, podcast directories (such as Apple Podcasts or Spotify), blogs and vlogs, and newsletters. Many are also listed in T&D publications.

- » **Community of practice:** Join or create a community where trainers can share challenges and solutions, fostering collaborative learning.
- » **Feedback and evaluation tools:** Use tools for gathering feedback on your training sessions to continuously improve and refine your methods.
- » **Local meetups:** Check for local training or professional development meetups to build connections in your area.
- » **Mentorship programs:** Seek out mentors or coaching relationships to gain guidance and support in your professional journey.
- » **Networking events:** Attend workshops, conferences, and seminars to connect with other trainers and industry experts.
- » **Online courses and webinars:** Platforms like Coursera, Udemy, and LinkedIn Learning offer a wealth of courses on training techniques, instructional design, and soft skills.
- » **Podcasts:** Training, leadership, and professional development podcasts can provide fresh insights and inspiration.
- » **Social media groups:** Platforms like LinkedIn and Facebook host groups where trainers share tips, resources, and experiences.
- » **Training tools and software:** Explore LMS tools, presentation software, and interactive training platforms to enhance your training delivery.
- » **Websites and blogs:** Follow blogs and websites focused on T&D for ongoing tips and trends.

With the right resources, you can use AI to level up your T&D game, make learning exciting and helping your learners truly shine. Think of it as having a super-charged toolkit — you get to design, deliver, and innovate in ways that make every session memorable, engaging, transferrable, and just a little bit magical.

IN THIS CHAPTER

- » Safeguarding data and protecting privacy
- » Maintaining transparency and accountability while encouraging innovation and responsibility
- » Respecting intellectual property rights and trade secrets
- » Ensuring regulatory compliance
- » Being aware of international rules and cultural challenges

Chapter 4

Navigating AI's Legal, Ethical, and Regulatory Compliance Worldwide

Amid sized company in Southern California thought it had found the perfect way to modernize training and development (T&D). They rolled out an AI platform that personalized learning, recommending modules based on each employee's role and performance. Managers loved it. Productivity ticked up, employees seemed more engaged, and the system looked like a win-win. Then came a notice from the Equal Employment Opportunity Commission (EEOC). Regulators wanted to know if the AI platform was treating everyone fairly or if women, older employees, and minority groups were being steered away from leadership programs. What started as an innovative tool suddenly became a compliance issue.

Stories like this are becoming commonplace. Although we don't (yet) have one sweeping *AI Act*, regulators are applying existing rules (covering consumer protection, workplace equality, and data privacy) to keep AI systems in check. And the message is the same across the board. When AI shapes people's opportunities, those decisions must be explainable, fair, and compliant with U.S. law. The Federal Trade Commission (FTC) has warned against misleading claims about AI-powered tools. The Equal Employment Opportunity Commission (EEOC) is monitoring bias in workplace development opportunities. The Department of Health and Human Services (DHHS) is reviewing algorithms tied to healthcare training and certifications. These are just a few examples of how agencies across the government are stepping in to ensure that AI is used responsibly, setting expectations that businesses can't ignore.

The takeaway is clear. AI in learning isn't just about speed and personalization. It's also about fairness, transparency, and accountability. If an algorithm is making decisions about training, promotions, performance, and the like, it has to respect the same anti-discrimination and privacy protections as any human decision-maker would be expected to do.

This chapter guides you through the twists and turns of AI's legal, ethical, and regulatory landscape, both locally and internationally. It breaks down the must-know rules and helps you navigate the maze of laws and regulations without getting trapped along the way.

Implementing Data Privacy and Protection Measures

Organizations face a multifaceted challenge in ensuring compliance across various areas of training and policy development. Clear regulations (Figure 4-1) not only guide best practices but also to establish consistent standards, protect employee rights, and reduce legal and ethical risks.

Without regulatory frameworks, organizations may struggle to implement effective training programs and maintain accountability across departments, leaving both the company and its employees vulnerable. The following sections provide a brief overview of key considerations.

FIGURE 4-1:
AI regulations are
necessary to
ensure safety,
fairness, and
accountability.



A2Z AI/Adobe Stock Photos

Tailoring training programs

Training requirements can vary significantly depending on the industry sector and the specific regulations in place. For example, healthcare organizations must train employees on Health Insurance Portability and Accountability Act (HIPAA) compliance, while financial institutions need to focus on the Gramm-Leach-Bliley Act (GLBA), which requires financial institutions — companies that offer consumers financial products or services like loans, financial or investment advice, or insurance — to explain their information-sharing practices to their customers and to safeguard sensitive data.

Additionally, with the patchwork of state laws, organizations operating in multiple states may need to provide varied training depending on local regulations. This creates a growing need for comprehensive data privacy training that addresses the specific requirements of different states.

AI can streamline the development of tailored training programs by analyzing employee roles and responsibilities, as well as regulatory requirements. Machine learning algorithms can identify the organization's specific training needs based on sector, location, and job function, ensuring that employees receive relevant training on laws like HIPAA or GLBA. Furthermore, AI-driven platforms can provide adaptive learning experiences, adjusting content in real time based on employee performance and comprehension.

Developing policies and procedures

While no single federal standard exists (at the time of this writing), organizations must develop policies that address sector-specific and state-specific regulations. This may mean creating different policies for handling health data or financial data, or implementing varying procedures based on state laws. T&D must then be tailored to ensure compliance with these diverse policies.

AI can assist organizations in crafting comprehensive policies by analyzing vast amounts of regulatory texts to identify key compliance requirements. *Natural language processing* (NLP), the AI technology that enables computers to understand and manipulate human language, can help draft, revise, and suggest updates to policies. This approach ensures that policies stay compliant with current laws and can adapt as new regulations emerge.

Handling and processing data

Training on the handling and processing of data focuses on compliance with relevant sector-specific laws. In states with strong privacy laws, such as California, employees need to be aware of how to handle personal data according to California Consumer Privacy Act (CCPA) requirements. Organizations may also need to provide training on emerging state laws and how they impact data processing practices such as Virginia's Consumer Data Protection Act (CDPA) or Colorado's Privacy Act.

AI solutions can automate data processing tasks while ensuring compliance with laws like the CCPA. By employing AI to monitor data access and usage, organizations can ensure that employees are handling personal data according to regulatory standards. AI can also facilitate real-time compliance checks and alerts when data handling practices deviate from required protocols, providing organizations with a proactive approach to regulatory adherence.

Responding to data breaches

Breach response procedures vary based on federal and state laws. For example, different states have different notification requirements after data breaches occur. Training must account for these varied requirements to ensure a consistent and compliant response to data breaches. This is especially challenging for companies operating across multiple states (or even countries) where a single incident could trigger a patchwork of reporting timelines, content requirements, and regulatory expectations. (More about country regulations later in this chapter.) Employees need clear guidance on how to identify a breach, whom to notify internally, and how to coordinate with legal and compliance teams to meet all applicable state

and federal obligations. Without thorough training, organizations risk missing deadlines, providing incomplete information, or facing legal penalties — all of which can damage trust with customers and regulators alike.

AI can enhance breach response procedures by providing real-time analysis and incident response recommendations based on existing federal and state laws. AI-driven systems can automate notification processes by identifying affected individuals and tailoring communications to state-specific requirements. Additionally, predictive analytics can help organizations anticipate potential breach scenarios, enabling them to prepare effective response strategies in advance.

Continuously improving and adapting T&D

With the evolving landscape of state data privacy laws and potential federal legislation, continuous improvement in training programs is essential. Organizations need to stay informed about new laws and update their training materials and procedures accordingly. Data privacy regulations in the United States and the European Union (EU) greatly influence how organizations handle T&D in data privacy and AI. In the EU, the emphasis is on strict and consistent compliance with the General Data Protection Regulation (GDPR). By contrast, the United States has a more complex set of federal and state-specific regulations, requiring organizations to create tailored training programs to meet a wide span of legal obligations.

AI can support continuous improvement in T&D by analyzing trends in regulatory changes and employee performance. By using data analytics, organizations can identify gaps in their training programs and policy compliance, allowing for timely updates and enhancements. AI systems can also facilitate ongoing monitoring of compliance status, ensuring that organizations quickly adapt to the evolving regulatory landscape.

Balancing Innovation with Responsibility in AI Integration

AI is changing the game for employers in many ways, and with this great power comes great responsibility. As businesses tap into the incredible potential of AI, it's important to keep ethics, fairness, and sustainability front and center. From making sure employment decisions are fair, to tackling AI's environmental impact, organizations have a lot to consider. It's all about finding that sweet spot where innovation meets responsibility — and these key areas show how to get there.

Considering AI transparency and accountability

As AI systems become more integrated into high-stakes sectors like healthcare, finance, and transportation, it's crucial to ensure that users understand how decisions are made. Regulations in many jurisdictions are moving toward requiring greater transparency, especially in the use of AI for critical decisions (for example, credit scoring, hiring, or medical diagnostics).

- » **Training implications:** Training programs should emphasize the importance of ensuring that AI decision-making processes are transparent and understandable to users. This can involve educating employees on how to explain AI decisions in plain language and ensuring that accountability mechanisms are in place, particularly when decisions impact people's lives.
- » **Ethical considerations:** Ensuring accountability means that if an AI system makes a harmful decision, someone should be able to take responsibility for it. Ethical training in AI systems should address how to design these systems with clear accountability pathways.

Honoring employee rights and AI-driven employment decisions

AI is playing a bigger role in hiring, promotions, and performance evaluations. Regulations like the EU's GDPR already include rules to prevent discrimination in these contexts, and organizations need to be prepared.

- » **Training implications:** Employees should be trained on the legal and ethical dimensions of AI in the workplace, with a focus on preventing bias and protecting workers' rights. For instance, HR teams can learn how to audit résumé-screening tools so they don't unfairly reject candidates based on gender, age, or ethnicity. Managers using AI in performance reviews can also be trained to treat AI scores as just one piece of input — not the sole basis for promotion or pay.
- » **Ethical considerations:** Training should cover how to detect and reduce bias in hiring algorithms, ensuring fairness and equal opportunity for all applicants.

Realizing AI's environmental impact

Large-scale “foundation models” are AI systems trained on enormous datasets that mimic how the human brain processes information. Once trained, they can be adapted to countless uses, from medical research to customer service to workplace learning. The challenge is that training these models consumes massive amounts of energy, sometimes enough to power thousands of homes for a year. This raises pressing questions about AI's carbon footprint and how to balance progress with sustainability.

- » **Training implications:** T&D programs can highlight ways to lower the environmental impact of AI. For example, developers can be encouraged to fine-tune smaller models instead of retraining massive ones from scratch. Or companies can partner with cloud providers that run on renewable energy.
- » **Ethical considerations:** Training should encourage organizations to balance innovation with sustainability goals and promote responsible resource use in AI development.

Respecting human rights

AI in surveillance, predictive policing, and monitoring systems raises serious concerns about privacy and individual freedoms. Regulations need to ensure these technologies are designed and applied responsibly.

- » **Training implications:** Developers and users should learn how to identify and mitigate risks like bias in facial recognition, which can lead to wrongful identification or discrimination. For example, teams can be trained to test algorithms across diverse datasets to reduce errors.
- » **Ethical considerations:** Training should stress the importance of protecting dignity and autonomy, ensuring AI doesn't reinforce inequality or infringe on rights like free expression, privacy, or access to justice. Predictive policing tools, for instance, must be carefully reviewed to avoid unfairly targeting specific communities.



REMEMBER

For AI to be widely accepted and integrated successfully, organizations must earn public trust. That means being transparent about how systems work, committing to fairness, and following strong ethical practices. Here are a few examples:

- » A bank using AI for loan approvals can build trust by clearly explaining how decisions are made so customers know the process is fair.

- » A healthcare company using AI for patient triage can strengthen trust by communicating openly about how data is used and what safeguards are in place.
- » An airline using AI for flight scheduling and crew assignments can build trust by explaining how the system balances efficiency with safety and fairness for employees and passengers.

Protecting IP Rights: Ownership of AI-Generated Works

As AI evolves and generates amazing content, questions about ownership and protection of *intellectual property* (IP) arise. Many IP laws are unclear about how to handle AI as a creator, and countries are scrambling to enact regulations. With no comprehensive legal frameworks yet in place, it's crucial not only to stay updated on the latest legal developments but also to lock in responsibility — ensuring that humans remain accountable for the use, attribution, and protection of AI-generated works. Clear policies and agreements can help organizations assign responsibility and reduce the risk of disputes or misuse.

One major challenge is who gets credit for AI-generated works? Is it the AI itself? Its developers? The end-users? Or the data trainers who prepare and clean the information? This raises important issues about authorship and attribution. Ethically, AI-generated content must be used responsibly, with training programs emphasizing safeguards to prevent misuse.

» Patent-related issues:

- **Novel algorithms:** AI can generate entirely new problem-solving methods that may qualify for patents. For example, an AI system might design a faster way to compress data or create a unique approach to fraud detection. Training should explain both the technical steps for developing these algorithms and the legal process of securing patent protection.
- **Ethical implications:** Patents can give companies exclusive control over powerful AI tools, which may create monopolies. For instance, if one company patents a critical medical AI diagnostic method, others might be blocked from using or improving it. Training should explore how to balance rewarding innovation with keeping essential technologies accessible.

»» Copyright and legal challenges:

- **Copyright basics:** AI-generated content raises questions like *“If an AI writes a marketing slogan, who owns it — the company, the programmer, or no one?”* Training should explain how copyright law views these situations.
- **Legal gaps:** Current copyright laws don’t clearly recognize AI as a creator. For example, in some cases, courts have ruled that works created entirely by AI cannot be copyrighted. Training should review these cases and compare how different countries handle them.
- **Fair use and licensing:** When AI is trained on existing material, fair use may or may not apply. For instance, using a short news article to train a model might be fair use, but uploading an entire copyrighted book likely isn’t. Training should explain these limits and the ethical responsibilities for companies.

»» Ethical and licensing considerations:

- **Attribution and moral rights:** Training should emphasize the ethical responsibility to acknowledge human creators when AI uses or builds on their work. For example, if an AI generates a report that heavily relies on a journalist’s articles, the journalist deserves credit even if the AI did the compiling.
- **Creative Commons and open licensing:** Training should explain how open licenses allow AI developers to use creative works responsibly while respecting the original terms. Creative Commons, a widely used licensing system that lets creators set conditions like requiring credit or restricting commercial use, is one example. A photo shared under a Creative Commons license might be fine for training an AI art generator, but only if the license permits commercial use.



REMEMBER

While AI regulations are still evolving, consider the following sources to find reliable information:

- »» **Government websites:** For the U.S., the U.S. Patent and Trademark Office (USPTO) provides guidance on patents, while the U.S. Copyright Office covers copyrights. State-specific regulatory websites can provide local requirements for data breaches and other compliance issues.
- »» **Industry associations:** Groups like the Electronic Frontier Foundation (EFF) or professional organizations in AI and tech often publish best-practice guides and summaries of emerging regulations.
- »» **Legal resources:** Law firms and legal research platforms often issue summaries, alerts, or whitepapers on evolving AI, copyright, and patent issues.

- » **Academic and professional publications:** Journals, conference proceedings, and reputable tech news outlets frequently discuss the intersection of AI, intellectual property, and licensing challenges.
- » **Internal compliance and legal teams:** Companies can develop internal reference materials and training guides based on federal, state, and international guidelines.

Using AI Ethically and Effectively

In the AI sector, companies use trade secrets to protect proprietary algorithms and datasets, maintaining a competitive edge without public disclosure. However, this approach carries risks, such as unintentional data exposure, especially as organizations collaborate. Training programs play a crucial role in teaching both the technical and ethical aspects of AI, helping employees balance protecting intellectual property with contributing to the field.

Transparency and fairness are essential for fostering innovation without compromising confidentiality. Training can guide organizations in sharing knowledge responsibly, protecting proprietary information while supporting collaboration and AI advancement.



REMEMBER

When it comes to using AI responsibly and effectively, here are some additional tips and considerations to keep in mind:

- » **Data privacy and security:** Prioritize data privacy by *anonymizing* sensitive data (removing identifying information), using robust security protocols, and complying with regulations like the GDPR and CCPA.
- » **Bias mitigation:** Implement bias detection and mitigation strategies to ensure AI models are fair, diverse, and inclusive, avoiding harmful stereotypes.
- » **Explainability:** Emphasize the importance of *explainable AI* (XAI) to ensure transparency, build trust, and maintain accountability in decision-making. (XAI attempts to make AI's methods and decisions more understandable and transparent to humans.)
- » **Continuous learning and improvement:** Regularly review and update AI models to ensure they stay accurate and effective over time.

- » **Ethical decision-making frameworks:** Integrate ethical frameworks into AI development, ensuring decisions align with societal values and benefit humanity.
- » **Collaboration over competition:** Promote cross-industry collaboration and knowledge-sharing to accelerate innovation and create equitable advancements in AI.
- » **Training for a future with AI:** Equip employees to adapt to an AI-driven environment, enhancing human capabilities through collaboration with AI.
- » **AI for good:** Encourage the use of AI for social good, addressing global challenges like climate change, healthcare, and social equity.

By focusing on these areas, organizations cannot only use AI effectively but also ensure that they're doing so in a way that's ethical, transparent, and aligned with long-term goals for innovation and social good.

Complying with Existing Regulations

AI systems must comply with a range of regulations beyond data protection and IP laws, including industry-specific requirements. Effective T&D is key to ensuring compliance and addressing ethical considerations in AI applications. These are some of the existing laws businesses must keep in mind:

- » **Consumer protection laws:** AI systems in consumer-facing applications must ensure transparency, fairness, and accuracy, avoiding misleading practices.
 - **T&D:** Training should emphasize transparency and fairness in AI decision-making to maintain consumer trust.
 - **Ethical:** AI should respect consumer rights and clearly communicate decision-making processes.
- » **Antidiscrimination laws:** AI can unintentionally reinforce biases, violating antidiscrimination laws like the U.S.'s Equal Credit Opportunity Act.
 - **T&D:** Training should focus on identifying and mitigating bias in AI systems, ensuring fairness.
 - **Ethical:** Organizations must ensure AI systems do not perpetuate systemic inequalities.
- » **Industry-specific regulations:** AI in industries like healthcare and finance must comply with regulations such as HIPAA rules and Securities and Exchange Commission (SEC) guidelines.

- **T&D:** Training should cover industry-specific regulatory requirements, ensuring AI development complies with privacy, safety, and legal standards.
- **Ethical:** AI should be used responsibly, safeguarding sensitive data and ensuring safety and privacy.



REMEMBER

The legal and regulatory landscape for AI is complex and ever-changing. Effective training is key to navigating data privacy, IP rights, and industry-specific compliance. Staying informed and engaging with policymakers helps shape effective compliance frameworks. By addressing legal and ethical aspects in training, organizations can manage risks, unlock AI's potential, and build public trust.

Going International

When expanding T&D programs internationally, organizations must consider legal and ethical concerns, especially with AI's growing role in the workplace. Countries have varying laws on data protection, IP rights, and employment rights. For example, the EU's GDPR has strict data handling guidelines, while other countries have more relaxed rules. AI also introduces cultural challenges, as algorithms may need adjustment to align with local customs, values, and communication styles. T&D programs must address both legal frameworks and cultural nuances, ensuring AI-driven training is contextually relevant.

The global regulatory landscape is evolving, with countries adopting different approaches — enacting binding legislation like the EU and issuing nonbinding guidelines like the United States. However, collaborative work by international institutions, such as efforts by the Organisation for Economic Co-operation and Development and the United Nations, aims to harmonize standards.



SHERYL
SAYS

As AI regulations keep shifting, organizations need to keep up — and T&D plays a big role in helping teams understand the rules and stay compliant across regions. Table 4-1 highlights the latest regulations by country and region. Please note that this information comes from a range of online sources and is accurate to the best of my knowledge as of mid-2025. But because laws evolve quickly, always double-check local requirements and global standards.



REMEMBER

With so many different rules popping up around the world, companies need to tailor their training programs to the laws that actually affect their employees' regions. It's not just about staying on the right side of the law (though that's important), it's also about building a culture where ethical AI use and transparency are part of the everyday workflow. Think of it as giving your team a GPS for

the tricky terrain of global AI — one that not only shows the fastest route but also warns of roadblocks, detours, and unexpected bumps along the way. Stay informed, plan ahead, and you’ll avoid the biggest pitfalls while navigating this fast-changing landscape with confidence.

TABLE 4-1 **International Rules and Regulations**

Country/ Organization	AI Governance Overview
Australia	Australia uses eight AI Ethics Principles to guide AI development, with a focus on ethics, human rights, and social responsibility. Training should address ethical AI use and its social impact.
Brazil	The country's General Data Protection Law mirrors the EU's GDPR. Brazil's AI strategy focuses on AI development, privacy, ethics, and safety.
Canada	Canada relies on the Directive on Automated Decision-Making to regulate responsible AI use. The Personal Information Protection and Electronic Documents Act and the Privacy Act govern data privacy, and Canada actively participates in international AI discussions.
China	China aligns AI with its Core Socialist Values, with regulations on <i>deepfakes</i> (altered images or recordings), recommendation algorithms, and data security. Training should focus on content accuracy, responsibility, and data handling.
EU	The AI Act categorizes AI systems by risk, emphasizing transparency, accountability, and ethics. Companies must align with AI and EU regulations, and training should cover ethical guidelines and compliance.
India	The National Strategy for AI focuses on government vision; data protection is guided by IT rules and the Digital Personal Data Protection Act, passed in 2023.
Japan	The AI Promotion Act, passed in 2025, promotes innovation with ethical standards, privacy, and safety. Japan adheres to strict data privacy laws, including the Act on the Protection of Personal Information.
Singapore	Known for the Model AI Governance Framework and the Personal Data Protection Act, Singapore is a leader in AI governance and data privacy.
South Korea	The country emphasizes AI innovation with deference to ethical guidelines and data protection laws like the Personal Information Protection Act.
U.S.	The United States follows a decentralized, sector-specific approach, with agencies like the Federal Trade Commission and the SEC regulating AI. States like California have their own regulations (CCFA). Training must account for both federal and state regulations.
UK	The UK uses existing regulations with an AI-specific overlay, focusing on security, accountability, and ethics. Training should integrate AI principles with broader laws.
UN	The United Nations promotes global AI governance through initiatives like UNESCO's Ethics of AI framework, which aims to develop ethical global standards for AI.

2

Harnessing Core Principles of T&D in the AI Era

IN THIS PART . . .

Master the art of writing prompts to get meaningful results.

Transform instructional design to create engaging, inspiring, and impactful T&D experiences.

Ensure your training leaves a lasting impact through clear objectives, practical exercises, and real-world application.

- » Keying in on the importance of prompts
- » Starting a dialogue with a chatbot
- » Guiding AI toward the information you need
- » Crafting specific prompts to get focused responses
- » Delving deeper into subjects with AI's help

Chapter 5

AI Prompt Writing Skill Sprint

Chances are you've been doing online searches for years, so you're already familiar with the basics. But do they have anything in common with AI prompts? Definitely. In both cases, it all comes down to the words you choose. If you're too vague, you'll end up swimming in a sea of irrelevant results. If you're too narrow, you might miss something important.

But here's where they split paths. A search engine is like a librarian who points to a massive shelf and says, "The information you want is somewhere in here — good luck!" You're left juggling dusty books and hoping you pick the right one. AI, on the other hand, is like a librarian who plops down in a comfy chair, puts on reading glasses, and says, "Tell me exactly what you need — I'll get it for you." No scavenger hunt required.

Whether you're an AI newbie or a battle-hardened veteran, this chapter's got your back, taking you through strategies that ensure you hit the bull's-eye on the first try. No trial. No error. Just pure results.

Understanding Why Prompts Must Be Precise

One thing to know about prompts: Precision pays off. A vague prompt is like asking someone, “Tell me about everything,” and then being frustrated when they don’t land on what you really wanted. The more precise you are, the better the response. Think of it as giving directions — if you just say, “Take me somewhere nice,” you might end up at a coffee shop when you really wanted the beach. The same goes for prompts: the more specific you are, the closer you’ll get to the answer you actually need.

Thinking of prompts as GPS

When asking your GPS for directions, you set the parameters: fastest route, most direct path, avoiding tolls, avoiding highways, or even the scenic option that takes a little longer. You might also prioritize fuel efficiency or walking versus driving. GPS doesn’t invent new roads; it works with the routes already available. How you phrase your request shapes the journey. Prompts work the same way: The clearer you are about where you want to go, the better AI can guide you. AI can be the GPS of T&D in the following ways:

- » Sparking fresh ideas for dynamic training.
- » Streamlining content creation, saving time.
- » Covering key training elements to meet your organization’s goals and standards.
- » Tailoring training to learners’ needs for a personalized approach.
- » Refining clarity and professionalism.
- » Extracting insights for improvement such as feedback, performance metrics, engagement level, and so on.
- » Adjusting content for evolving needs to keep training responsive.
- » Creating charts, tables, and lists.

With AI as your guide, T&D can be more creative, efficient, and responsive, helping teams and individuals achieve their learning objectives with greater ease. By continuously improving your training approach, AI enables a more dynamic, impactful, and future-ready workforce.

Honing your prompting skills to get better results

The adage *garbage in, garbage out* (often abbreviated as GIGO), coined by George Fuechsel, an IBM computer programmer and instructor back in the 1960s, is particularly relevant with AI. Vague or flawed prompts lead to poor AI responses. To get quality output, start with quality input. Shoot for the following in your prompts:

- » **Clarity:** High-quality prompts minimize ambiguity, ensuring the chatbot knows exactly what you're looking for.
- » **Creativity:** Well-structured prompts encourage AI to think outside the box, leading to more innovative and creative responses.
- » **Efficiency:** Clear prompts reduce the need for follow-up clarification, saving you time and keeping the conversation flowing.
- » **User experience:** Thoughtful prompts generate output that's relevant and engaging the first time out.



TIP

And here's a fun twist: You can toss aside the polite manners that were drummed into your head when you were a kid. AI tools are lines of code, so they don't expect "please" and "thank you," although they may appreciate those niceties.

Setting Your Response Preferences

When it comes to letting AI know your preferences, think of it as setting up your favorite playlist. Everyone has their unique needs and styles. Some folks prefer a casual, conversational tone, while others like the efficiency of straightforward information. Some people like short, concise sentences, while others prefer long, rambling sentences. Setting your preferences can help tailor AI's responses to better suit your needs, whether you favor casual or formal tones, or want to focus on specific topics. You can sometimes save settings for future sessions to maintain a consistent experience.

Here are some examples of preferences you can set:

- » **Complexity:** Choose simple or technical depth.
- » **Language:** Choose your preferred language.
- » **Length:** State how long the response should be in paragraphs, words, pages, or whatever.
- » **Sensitivity:** Set any preferences for handling delicate topics.
- » **Style:** State your preference for bullet points, paragraphs, charts, or tables.
- » **Tone:** Select formal, casual, friendly, conversational, and so on.



REMEMBER

Customization options vary by chatbot. Some free chatbots require you to enter preferences with each query, while others don't allow customization at all. The ability to tailor responses depends on the chatbot's design and purpose. If you're seeking a customizable experience, look for tools that explicitly offer these features, such as ChatGPT (<https://chatgpt.com/>), Microsoft Copilot (<https://copilot.microsoft.com>), or Perplexity.ai (<https://www.perplexity.ai/>).

Having Conversations with Your Chatbot

Chatting with your chatbot can be as natural as having a conversation with a person — just type or speak your thoughts, and your chatbot will respond. It's designed to make communication feel effortless, whether you're asking for advice, brainstorming ideas, or tackling a specific task. And if the initial response isn't quite what you're looking for, no worries! You can rephrase or refine your request, and your chatbot will continue the conversation until you're satisfied.



AI
SPOTLIGHT

For example, in Figure 5-1, I prompted ChatGPT to give me three key steps for crafting effective prompts. Once it gave me the responses, I prompted it to organize those steps into a table for better clarity. The best part? It was incredibly simple. All I needed to do was ask.



REMEMBER

Chatbots didn't earn the name *chatbot* for nothing. They love to chat! Imagine a gabby friend who can't stop talking about one topic unless you flash a big sign saying, *Next subject, please*. That's exactly how chatbots act. They'll happily stick to the same conversational thread until you let them know it's time to switch subjects. You can easily do that by starting your new prompt with *End conversation*. [*New conversation.*] It's like hitting the reset button.

In brief, what are three steps to creating great prompts?

Creating great prompts involves three key steps:

1. **Be Specific:** Clearly define what you want. The more detailed you are about the context and the desired outcome, the better the response will be.
2. **Provide Context:** Include relevant background information or examples to guide the response. This helps narrow down the focus and ensures the output aligns with your expectations.
3. **Encourage Creativity:** Use open-ended questions or phrases that invite exploration. This allows for more nuanced and varied responses, fostering a richer dialogue.

Can you turn that into a table with the left column labeled step and the right labeled action?

Sure! Here's the information in table format:

Step	Action
Be Specific	Clearly define what you want with detailed descriptions of the context and outcome.
Provide Context	Include relevant background information or examples to guide the response.
Encourage Creativity	Use open-ended questions or phrases that invite exploration for richer, nuanced responses.

FIGURE 5-1:
Conversation
with a chatbot.

Keying in on Some General Guidelines

Writing AI prompts is like training for a sport. The more focused your practice sessions are, the better prepared you'll be to achieve the results you want when the big game arrives.

Asking less — getting more

Brevity and clarity are key. It's all about keeping things simple. You don't need to use complicated jargon or long-winded sentences. Just aim for straightforward language that gets your point across. Here's an example:

Complex: Provide me with a list of all possible benefits of regular physical activity.

Brief and concise: List five benefits of regular physical exercise.



AI
SPOTLIGHT

My early interactions with AI provided a valuable lesson about asking less and getting more. I don't recall exactly what I asked for, but my question must have been wordy and long-winded. I distinctly remember being both surprised and impressed by the response.

Whoa, there, Shakespeare! Try again — your prompt just gave me digital indigestion.



SHERYL
SAYS

That's when I found out ChatGPT has a sense of humor — and an uncanny ability to turn a routine exchange into a full-on performance. So be careful what you ask for, or you may end up with a three-act Shakespearean play.

Requesting one thing at a time

While AI can respond to multi-part questions, it generally performs best when given one clear task at a time. Otherwise, your prompt may lack clarity, making it difficult for AI to generate something meaningful.

Lacking clarity: I need information on the benefits of exercise, different types of exercises, how to create a workout routine, and the best diet plan to follow.

Simplified single task: What are the benefits of exercise for overall health and well-being?

Being detailed

Being detailed can relate to word or page count, number of bullet points, formatting requirements, tone, or any specific elements or themes. Here are some examples of well-written, detailed prompts:

- » Write a persuasive two-paragraph email to [name of client], who has shown an interest in purchasing [product] but can't commit because of budget constraints. List three purchase options.
- » Create an engaging two-paragraph introduction for an article on the pros and cons of [topic] starting with a relevant analogy.
- » Compose a 500-word blog on [topic].
- » In two pages use an academic tone to summarize [topic].

Asking open-ended questions

When you ask AI open-ended questions, you unlock the floodgates of creativity and imagination. It's like giving wings to a bird, allowing it to soar freely across the vast expanse of its potential. With open-ended questions, AI can delve into uncharted territories, exploring ideas and concepts that you may have never considered before. This can spark a chain reaction of thoughts, leading to unexpected and fascinating outcomes. It's in these uncharted territories that AI truly shines, pushing the boundaries of what is known and venturing into the realm of what can be.

Open-ended prompt: How do you envision the role of AI in shaping the future of healthcare in the next 5 years?

Closed prompt: Do you envision that AI will reshape the future of healthcare in the next 5 years?

Closed prompts, such as those requiring yes or no answers, are effective when you need specific information, concise responses, or feedback that can be easily analyzed. They provide a focused approach to communication and can help you get the information you need efficiently.

Using keywords or phrases

You can enhance AI's ability to generate more relevant ideas by incorporating specific keywords related to your industry, niche, or topic. For example, if you're asking about dogs, include terms like breed, size, training, and temperament. If you're inquiring about gardening, include keywords such as organic, plants, soil, or fertilizer. Here are a couple of examples of prompts using some of these keywords:

- » Share 3–5 tips on how to create a thriving organic garden.
- » Write an informative 500-word article about the best plants for beginners to grow in their garden along with essential care instructions.
- » Tell me about small dogs with good temperaments.
- » Which large dogs are obedient and easy to train?

IDENTIFYING YOUR LEARNERS

When you include details about your learners in your prompt, you help AI tailor responses more effectively. For example, if your learners include busy tech professionals, you may focus on efficient tips and concise information. Or you may specify the age range of your learners, such as Gen Xers or baby boomers, to ensure the content is age-appropriate and relatable. Geographic location is also important. If your learners are in a specific country or region, AI can provide advice that considers local customs or resources.

Additionally, mentioning the learners' occupation(s), such as accountant or healthcare worker, allows for more relevant examples and insights. By sharing this information, you create a more engaging and meaningful interaction that speaks directly to the learner's preferences and needs. Here's an example of a well-written prompt:

Provide 5 tips on work-life balance for young professionals age 25–35 living in major cities, particularly those in the tech industry. Consider their likely familiarity with digital tools and the challenges they face in maintaining boundaries between work and personal life.

See Chapter 8 for an in-depth look at getting to know your learners through a T&D Kick-Start Brief. And, yes, AI can help with that as well.

Getting into Specifics

When it comes to crafting specific AI prompts, think of it like training for a competitive athletic event. Just as a sprinter refines their start technique and a high jumper perfects their approach angle, the more you focus and tailor your prompts, the sharper and more effective your results will be. In the realm of T&D, the same principle applies: Precise, goal-oriented prompts yield responses that hit the target.

Here are some examples of specific prompts as they relate to T&D:

General content creation

- » Create a detailed lesson plan for a training session on [specific skill], including a brief summary, objectives, and key points to cover.

- » Generate an introductory module for a training program on [topic], including key learning objectives and an overview of what learners will gain.

Detailed explanations

- » Explain the concept of [topic] in simple terms suitable for beginners, including real-life examples and analogies.
- » Develop a comprehensive explanation of [concept], incorporating definitions, historical context, and current applications.

Structuring and organizing

When you're designing a training program, structure and engagement go hand in hand. A well-organized curriculum ensures learners progress logically through the material, while interactive elements keep them motivated and actively involved. Whether you're outlining a detailed module structure with clear timings or brainstorming *gamification* (adding gaming elements) ideas to bring the content to life, focusing on both the *what* and the *how* ensures your training hits the mark.

These are some ways you can prompt AI to help you create a dynamic and impactful T&D program that keeps learners engaged from start to finish:

Module structure

- » Outline a structured training program on [topic], breaking it down into modules, key sections, and suggested timings for each section.
- » Design a training curriculum for [topic] with a logical progression of topics and estimated time allocations.

Interactive elements

- » Suggest interactive activities and exercises to include in a training program on [topic] that will engage learners and reinforce key concepts.
- » Provide ideas for gamification elements that can be incorporated into a training module on [topic].

Personalizing and adapting

One size rarely fits all. Personalizing and adapting your programs ensures every learner, from novice to expert, gets the most out of their experience. Whether it's creating tailored learning paths based on individual backgrounds or using adaptive learning technologies to adjust content and assessments, the goal is the same: Meet learners where they are and help them succeed.

Here are some ideas for prompting AI to craft training solutions that resonate with diverse needs and learning styles:

Tailored learning paths

- » Generate a personalized learning path for a learner who is new to [topic] and has a background in [related field].
- » Create a custom training plan for an advanced learner in [topic], including advanced topics and additional resources for further study.

Adaptive learning recommendations

- » Based on common learner profiles for [topic], suggest adjustments to the training program that address varying levels of prior knowledge and learning styles.
- » Evaluate the effectiveness of incorporating adaptive learning technologies in a training program on [topic] and recommend strategies for tailoring content and assessments to individual learner needs.

Assessing progress and gathering feedback

Assessment and feedback are the cornerstones of effective training. Assessments help gauge learner understanding and track progress, while thoughtful feedback creates a loop of continuous improvement for both the learners and the program itself. From crafting quizzes and formative evaluations, to integrating learner insights into future sessions, these tools ensure your training is not only impactful but also evolves to meet learner needs.

These are a few prompt strategies for making assessments and feedback work seamlessly together:

Assessment creation

- » Develop a set of quiz questions for evaluating learners' understanding of [topic], including multiple-choice, true/false, and short answer questions.
- » Design a formative assessment to measure learner progress in a training module on [skill], with criteria for evaluation.

Feedback integration

- » Provide suggestions for incorporating feedback from learners into the training program to improve content and delivery.
- » Analyze common feedback themes from previous training sessions on [topic] and recommend adjustments to address these issues.

Garnering data analysis to generate insights

Data analysis and insights are the driving force behind continuously improving training programs. By tracking learner performance and analyzing key metrics, you can identify what's working and where adjustments are needed. From creating comprehensive reports to making data-driven recommendations, you'll use these insights to ensure your training stays relevant, effective, and aligned with learner needs.

You can prompt AI to help you explore how to turn raw data into actionable improvements for your program in the following ways:

Performance tracking

- » Suggest ways to track and analyze learner performance in a training program on [topic], including key metrics and data points to monitor.
- » Generate a report template for summarizing training outcomes and learner achievements based on assessment data.

Improvement recommendations

- » Based on the performance data from [previous training program], recommend specific changes to enhance the effectiveness of the training.
- » Analyze trends in learner feedback and provide recommendations for improving the training program's content and delivery.

Managing content

Managing training content is an ongoing process that requires both strategy and attention to detail. Keeping materials up-to-date with the latest advancements ensures your program stays relevant, while effective version control maintains consistency and prevents confusion. Whether you're planning updates to reflect industry changes or organizing content revisions for clarity, a well-managed system keeps your training running smoothly and effectively.

Here's how to prompt AI so it generates clear, practical strategies you can actually use to stay ahead in content management:

Updating content

- » Generate a plan for updating training materials on [topic] to reflect recent changes or advancements in the field.
- » Suggest methods for maintaining the relevance of training content in a fast-evolving area such as [industry or subject].

Version control

- » Provide best practices for managing different versions of training materials to ensure consistency and clarity.
- » Create a version control strategy for training content updates and revisions.

Fostering accessibility and engagement

Creating training programs that are both accessible and engaging is essential for reaching and inspiring diverse learners. Accessibility features ensure that everyone, regardless of their ability or language proficiency, can fully participate, while engagement strategies keep learners motivated and immersed in the content.

From incorporating inclusive design elements to leveraging interactive tools and multimedia, you can make your training impactful and inclusive in countless ways.

Here are some suggestions for prompting AI to explore techniques to foster both accessibility and engagement:

Accessibility features

- » List accessibility features that should be incorporated into a training program to ensure it is inclusive for all learners, including those with disabilities.
- » Suggest tools and technologies to make training content accessible to non-native speakers and learners with different language proficiencies.

Engagement strategies

- » Propose strategies for increasing learner engagement in an online training program on [topic], including interactive elements and multimedia.
- » Recommend techniques for maintaining learner motivation and interest throughout a training course on [topic].

Creating scalability and delivery

Designing training programs that can *scale*, or expand, seamlessly while maintaining quality is a challenge worth mastering. *Scalable* solutions ensure your content reaches larger audiences without losing its impact, while the right delivery format can make or break learner engagement. Whether you're expanding a program globally or deciding between *synchronous* (real-time) and *asynchronous* (recorded) formats, thoughtful planning ensures your training is effective and adaptable to learners' diverse needs.

These prompts can lead to strategies for scaling and delivering with precision and success:

Scalable training solutions

- » Identify scalable solutions for delivering training to a large audience, including potential platforms and delivery methods.
- » Create a plan for scaling a training program from a small team to a global workforce.

Delivery formats

- » Compare different delivery formats (for example, online, in-person, hybrid) for a training program on [topic] and recommend the most effective approach based on the target audience.
- » Assess the pros and cons of synchronous and asynchronous delivery formats for a course on [topic] and suggest the best format for engaging learners and achieving course objectives.

Prompting AI for Help with Research

When you want to stay updated, generate ideas, solve a problem, prepare a report or presentation, or dig deeper into a topic, you may ask your chatbot assist by conducting research. Here are some things to remember when writing the prompt:

- » **Comparative analysis:** If you're trying to make a decision, you can ask AI for comparisons. For instance, you can ask, *What are the pros and cons of different project management tools based on recent user feedback in the year 20XX?*
- » **Data and statistics:** If you need quantitative information, ask for specific data points or statistics. For example, *What are the current statistics on employee engagement in the agricultural biotech industry? List by region and age range.*
- » **Interdisciplinary insights:** AI can provide research that crosses disciplines. For instance, if you're in healthcare, you can ask, *How are advancements in technology influencing neonatal intensive care in large metropolitan hospitals?*
- » **Sources:** You can ask AI to provide sources or references for the information it presents. For example, you may say, *Please summarize recent studies on remote work productivity and provide links to the original research.*
- » **Specificity:** You should be as specific as possible about the topic or question. For instance, instead of asking for general information on marketing, you can ask, *What are the latest trends in digital marketing for small businesses?*
- » **Trends and predictions:** AI can help you identify emerging trends or future predictions in your industry to help with planning. You may ask, *What are the predicted trends in consumer online purchasing for the holiday season for this calendar year?*

Avoiding biases



WARNING

AI may anticipate what you want to hear by analyzing previous interactions, trends, and language patterns, often leading to biased responses. Here are two examples:

- » In Example 1, I posed this neutral question: *In brief, how can AI impact training?* Rather than responding with positive and negative aspects, AI cited only positive aspects.
- » In Example 2, I posed this negative question: *In brief, how can AI negatively impact training?* I received only negative aspects.



AI
SPOTLIGHT

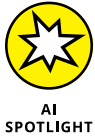
Example 1

In brief, how can AI impact training?

AI can significantly enhance training in several ways:

1. **Personalization:** AI can tailor learning experiences to individual needs, adjusting content and pace based on user performance and preferences.
2. **Feedback and Assessment:** Automated assessment tools provide immediate feedback, helping learners identify areas for improvement quickly.
3. **Content Creation:** AI can assist in generating training materials, quizzes, and simulations, saving time for instructors.
4. **Adaptive Learning:** AI systems can analyze learner data to adapt training programs dynamically, ensuring relevance and engagement.
5. **Accessibility:** AI can create inclusive training environments through features like speech recognition, translation, and personalized support for diverse learning needs.
6. **Data Analytics:** By analyzing learner data, AI can identify trends and insights, enabling organizations to improve training effectiveness.

Overall, AI can make training more efficient, engaging, and effective.



Example 2

In brief, how can AI negatively impact my training?

AI can negatively impact training in several ways:

1. **Over-Reliance:** Excessive dependence on AI tools can reduce critical thinking and problem-solving skills, as learners may rely too heavily on automated solutions.
2. **Bias:** If AI algorithms are trained on biased data, they can perpetuate or amplify those biases, leading to unfair or inaccurate assessments and recommendations.
3. **Loss of Personal Interaction:** AI may reduce opportunities for human interaction and mentorship, which are crucial for building soft skills and deep understanding.
4. **Privacy Concerns:** The collection of learner data for AI analysis can raise privacy issues, especially if not managed transparently and securely.
5. **Accessibility Issues:** Not all learners may have equal access to AI tools, potentially widening the gap between those who can leverage technology effectively and those who cannot.
6. **Misalignment:** AI recommendations may not always align with specific training goals or organizational needs, leading to ineffective learning experiences.

Balancing AI integration with traditional methods is key to mitigating these risks.

Lesson learned: To avoid biased answers, write prompts that are complete, specific, and clear. In my original prompt, I should have asked: *In brief, how can AI positively and negatively impact training?*

Checking for accuracy



While chatbots can be incredibly helpful, they sometimes resemble a friend who confidently shares information that's not always spot on. Just because it sounds good doesn't mean it's true or accurate. It's important to remember that chatbots generate responses based on patterns in data, which means their information may be outdated or influenced by biases. Also, chatbots may not fully understand nuanced queries or complex topics, leading to oversimplified or misleading answers. Always double-check with trusted sources to verify any research or claims a chatbot provides.

Respecting copyright laws

When you ask a chatbot to do research, it's like having a supersmart sidekick who can help you understand everything. Just make sure you don't get your hand caught in the cookie jar. Balancing creativity and accuracy while respecting copyright laws keeps the cookie jar safe for everyone.

When it comes to determining whether material is copyrighted or original, the process can be quite complex. Copyright protection typically applies to original works of authorship — such as text, images, and music. Using someone else's copyrighted materials without written permission is illegal. This creates a challenge when getting responses from AI. Here are a few key points to consider:

- » **Attribution:** Even original content should credit sources and creators.
- » **Fair Use:** Limited use of copyrighted material may be allowed for commentary, criticism, or education.
- » **Licensing:** Websites may have usage rules, so always check before using content.
- » **Originality:** Content is original if it's not directly copied, but inspiration vs. infringement can be subjective.
- » **Public Domain:** Some works are free to use because of an expired copyright or *public dedication* (the author has given up their right to the information and allowed it to be used without restrictions).
- » **Resources:** Tools like copyright registries help verify content status.



WARNING

AI generated responses may sound original but could unknowingly reflect protected material. When in doubt, rely on other sources, seek legal advice, or consult copyright experts.

Making It Your Own

I went straight to the source and asked ChatGPT to roast itself — give me five reasons why you should never just copy-paste what a chatbot says word-for-word.



AI
SPOTLIGHT

Figure 5-2 offers its words of wisdom.

FIGURE 5-2:
Chatbot
explaining why
you shouldn't use
its text verbatim.

Sure! Here are five reasons why people should think twice before using chatbot responses verbatim:

1. **Context Matters:** Chatbots generate responses based on patterns in data, but they don't always grasp specific context. What works in one situation may not fit another, leading to misunderstandings or inappropriate responses.
2. **Lack of Personalization:** Chatbots provide generalized information that might not cater to individual needs or preferences. Relying on their responses without tailoring them can lead to missed opportunities for more relevant insights.
3. **Accuracy Issues:** While chatbots strive for accuracy, they can sometimes provide incorrect or outdated information. It's essential to verify facts, especially in critical situations like health or legal matters.
4. **Nuance and Tone:** Chatbots often miss the subtlety of human communication, including tone, humor, or emotional weight. Using their responses without adjustments can lead to miscommunication or come off as robotic.
5. **Encouraging Critical Thinking:** Engaging with information critically is vital. By not using chatbot responses verbatim, people can develop their analytical skills and foster deeper understanding, leading to better decision-making.

Overall, while chatbots can be helpful tools, it's essential to use their output as a starting point rather than a final answer.



REMEMBER

While AI has made remarkable strides in generating coherent text, it needs human intelligence (HI) to give it the essence of individuality. Infuse your own unique voice, perspectives, and emotions into the content you get from AI to ensure that your work remains genuine, engaging, and distinctly yours. Here's an example of making AI content your own:

AI's response: To optimize the efficacy of this interaction, it is imperative to utilize a structured approach in addressing the specific requirements of the user's inquiry, ensuring that all facets are comprehensively covered, and that no pertinent details are overlooked. This methodology will facilitate a comprehensive understanding of the user's needs, thereby ensuring that the interaction remains productive, precise, and aligned with the intended objectives. By adhering to this approach, the overall quality and relevance of the response can be maximized, contributing to an optimal resolution of the inquiry.

HI modifications: To make this conversation as helpful as possible, it's important to take a clear and organized approach to understand exactly what you're asking. That way, we can make sure we cover everything you need without missing anything important. This helps us keep things on track and focused, so we can get you the best possible answer. By staying organized and thorough, we can make sure everything is addressed properly.

IN THIS CHAPTER

- » Fine-tuning and elevating your training programs with AI tools and platforms
- » Developing hard and soft skills
- » Bolstering traditional instructional methods and continuously updating materials
- » Enhancing collaboration and facilitating communication
- » Adapting to learners' differing abilities
- » Considering ethical matters in instructional design

Chapter 6

Transforming Instructional Design

Instructional design is like a bustling construction site where a cutting-edge building is rising — powered by artificial intelligence (AI). Gone are the days of outdated blueprints and slow, labor-intensive design processes. AI assists architects, designing the most efficient structure and tailoring the foundation, framework, and layout to fit each client. In the same way, every training session becomes a journey filled with dynamic, evolving spaces: specialized rooms for deep dives, fast elevators for quick learning, and quiet corners for reflection.

Just like clients can now “walk through” a building using virtual (VR) or augmented reality (AR), learners can step into their training environments in a similar way. And it doesn’t have to be limited to VR or AR, which you can learn more about in Part 5. Training can also come to life through games, podcasts, videos, and other engaging formats.

So, grab your hard hat and step onto the construction site, because in this chapter, you explore how AI is reshaping the instructional design landscape. From creating personalized learning pathways to planning seamless onboarding, AI can be your blueprint for all your T&D needs.

AI-ifying Your Training with Popular Tools and Platforms

Welcome to the learning metropolis of tomorrow, where AI helps create a thriving, community of learners. AI-enhanced instructional design is like exploring a vibrant city — full of energy, possibilities, and unique paths. Developers can chart the course with greater ease, while learners navigate their own journeys, making the experience as enriching as the destination.



In this section, you look at popular AI tools that help you plan, create, and deliver training so learners build the skills they need. The instructional design tools in Table 6-1 can save time, spark creativity, and make learning more engaging. Your choice will depend on your goals, course complexity, learners, and budget.

TABLE 6-1 Tools of the Trade

Category	Tools and Descriptions
Content creation and personalization	<p>Articulate Rise: Enables easy creation of interactive eLearning modules. When paired with AI, it can suggest personalized content adaptations based on learner behavior.</p> <p>Canva: Primarily a design tool, but with its AI-powered features it can assist you in creating visually appealing learning materials like infographics, presentations, and videos.</p> <p>Synthesia: Converts text into video content with realistic AI avatars, making it easy to create engaging and customizable video-based training.</p>
AI-powered LMS	<p>Docebo: Uses AI to recommend learning paths, automate administrative tasks, and generate insights into learner performance.</p> <p>TalentLMS: Offers features like adaptive learning pathways and predictive analytics to optimize training.</p>
Adaptive learning platforms	<p>Smart Sparrow: Personalizes learning experiences in real time, adjusting difficulty levels and content based on learner progress and engagement.</p>

Category	Tools and Descriptions
Analytics and insights	<p>Watson AI: Helps you analyze learner data to identify trends, improve course design, and predict outcomes.</p> <p>Google Cloud: Integrates with eLearning platforms to provide detailed insights and predict learner success.</p>
Content generation with large language models (LLMs)	<p>ChatGPT: Assists you in creating course outlines, generating quizzes, writing case studies, and crafting scenarios for training.</p> <p>Jasper AI: Tailors content creation for eLearning modules, marketing campaigns, and more with specific tone and style adjustments.</p>
Gamification and interactivity	<p>Kahoot!: Enhances quizzes and interactive games by providing insights on question difficulty and engagement levels.</p> <p>ThingLink: Helps you create interactive and immersive training experiences by adding AI-enhanced hotspots to videos and images.</p>
Video and audio tools	<p>Descript: Edits video and audio content with AI transcription and voice synthesis, making it easy to refine multimedia learning materials.</p> <p>Otter.ai: Transcribes lectures, meetings, or webinars, turning spoken content into shareable and searchable text for learners.</p>
Assessment and feedback	<p>ProctorU: Supports online assessments with AI-driven exam monitoring and detailed analytics.</p> <p>Quizlet: Recommends study materials and adapts quizzes based on learner performance.</p>



When I first drafted this chapter, I prepared it in narrative form. Headings such as the ones you see in the “Category” column were followed by opening sentences, then bulleted lists. During the author’s review, however, I realized that setup wasn’t space-efficient or reader-friendly. So I copied the content into ChatGPT and prompted it to reformat everything into a table. (Learn more about prompts in Chapter 5.)

Leveling Up Instructional Design Models with AI

As mentioned, just like city planners rely on established blueprints to build thriving communities, instructional designers have their own trusted models to construct effective learning environments. In your supercharged city of instructional design, AI tools serve as the smart technology that keeps everything running seamlessly.

Tools like **ChatGPT** and **Canva** act as architects’ assistants during the development phase, helping you design engaging and interactive materials, streamline content creation, and ensure alignment with learner needs. Platforms like **Kahoot!** function as interactive feedback hubs, enabling real-time assessments and engagement tracking to gauge learner understanding effectively.

To monitor and improve your model’s overall performance, tools such as **Tableau** and **Power BI** provide powerful data-analysis capabilities. They allow you to visualize learner performance trends, identify areas for improvement, and make data-driven decisions to refine your instructional strategies.

The AI tools you see in Table 6–2 can provide the foundational blueprints for your T&D materials throughout the instructional design process. They’ll help you transform learning into a smart, interconnected experience that’s dynamic, responsive, and always improving.

TABLE 6-2 **How AI Can Improve Features and Applications for Instructional Design Models**

Model	Features	AI Application
ADDIE	Phases: Analysis, Design, Development, Implementation, Evaluation. Iterative. Comprehensive.	Assists in analysis and evaluation by processing data and providing insights.
Kirkpatrick	Levels Reaction, Learning, Behavior, Results. Outcome-focused. Feedback-oriented.	Analyzes feedback and performance data to measure effectiveness.
Dick and Carey	Systematic approach. Detailed steps. Emphasizes alignment of objectives, instruction, and assessment.	Supports needs assessments, personalized learning, and alignment through data analysis.
Gagne’s Nine Events	Structured steps. Cognitive focus. Learner engagement.	Automates feedback and tracks learner engagement during instruction.
Merrill’s Principles	Task-centered. Knowledge activation. Learner engagement.	Facilitates personalized learning paths based on performance.
SAM	Iterative development. Agile approach. Collaborative.	Streamlines prototyping with rapid feedback and collaborative design support.
Rapid prototyping	Fast development. User feedback. Flexible iteration.	Aids in quick prototype creation and testing, adjusting based on user input.
Action mapping	Performance focus. Goal-oriented. Visual framework. Engaging scenarios.	Analyzes data, identifies gaps, and creates practice scenarios for engagement.

AI-assisted instructional design is completely transforming how people learn. When you bring AI into the design process, it becomes a powerful sidekick for instructional designers, allowing you to create personalized and engaging learning experiences. This makes it easier to cater to different learning styles and needs, leading to a more effective and enjoyable T&D experience. It's exciting to see how AI is reshaping the learning landscape, making it more accessible and engaging for everyone.

Personalizing learning experiences

One of the most significant impacts of AI on instructional design is the ability to personalize learning experiences. Traditional instructional methods often adopt a one-size-fits-all approach, which may not address the diverse needs of learners. AI-powered adaptive learning systems, however, can analyze learners' interactions with content and adjust instructional materials in real-time. This personalization includes modifying the difficulty of tasks, suggesting additional resources, and providing tailored feedback based on individual performance and learning styles.

Personalized learning pathways ensure that each learner engages with content that's relevant and appropriate for their level of understanding. For instance, AI algorithms can track progress and recommend specific lessons or modules that target areas where the learner needs improvement, thereby optimizing the learning experience. See the nearby sidebar, "AI-generated personalized training for Nico," for a detailed example.



AI
SPOTLIGHT

AI-GENERATED PERSONALIZED TRAINING PLAN FOR NICO

Instructional design models like those in Table 6-2 provide structure for creating a step-by-step, feedback-driven training plan that builds skills progressively and measurably. Here's a look at how ChatGPT can assist in tailoring a personalized training plan to match a learner's specific needs, goals, and learning style.

Background: Nico is a 35-year-old engineer who's highly regarded for his technical expertise and problem-solving skills. His colleagues appreciate his precision and logical approach, but when it comes to verbal communication, he often struggles to convey ideas clearly and concisely, especially to nontechnical audiences. Nico is in line for a management role in which he'll need to lead meetings, present to stakeholders, and communicate effectively with diverse teams.

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Nico's manager, aware of his potential, suggested that he work on simplifying his language and improving his ability to engage an audience. Nico is determined to succeed and has agreed to participate in a personalized training plan to refine his verbal communication skills.

Prompt: Assume that you're a seasoned instructional designer and were asked to create a personalized 8-week training plan to help a 35-year-old engineer named Nico improve his verbal communication skills. He's highly technical but struggles to simplify ideas and present to nontechnical audiences. He's preparing for a management role. Include weekly goals, learning activities, and assessment ideas. Make it actionable and engaging.

Personalized lesson plan for Nico

Objective: Enhance Nico's verbal communication skills to ensure he can effectively convey ideas to both technical and nontechnical audiences, engage listeners, and build confidence as a communicator.

Duration: 8 weeks (2 sessions per week, 1.5 hours per session)

Week	Focus	Session 1	Session 2
1	Assessment and Goal Setting	Baseline assessment: Conduct mock presentations and conversations. Identify strengths and areas for improvement. Set specific, measurable goals (for example, reducing filler words by 50% within 4 weeks).	Introduce the basics of effective communication (clarity, brevity, engagement). Discuss the importance of tailoring messages to the audience.
2	Simplifying Technical Jargon	Practice translating technical terms into simple language. Use real-life examples from Nico's projects.	Role-play scenarios with nontechnical colleagues. Provide constructive feedback on clarity and relatability.
3	Structuring Presentations	Work on frameworks for organizing thoughts (such as the Pyramid Principle). Practice creating clear introductions, body content, and conclusions.	Deliver a short, structured presentation on a familiar topic. Receive feedback on structure and delivery.

Week	Focus	Session 1	Session 2
4	Audience Engagement	Explore techniques to engage listeners (such as storytelling and rhetorical questions). Identify ways to read the room and adjust delivery.	Practice engagement techniques in a group setting. Get feedback on tone, body language, and interaction.
5	Building Confidence	Address common fears and nerves about speaking. Practice breathing and grounding techniques.	Engage in impromptu speaking exercises to build adaptability.
6	Handling Q&A Sessions	Master strategies for addressing questions clearly and confidently. Practice responding to challenging queries.	Conduct a mock Q&A session with peers. Receive feedback on handling pressure and maintaining composure.
7	Advanced Skills	Work on persuasive communication techniques. Practice presenting a case for a new initiative.	Focus on storytelling to make technical content more engaging. Get feedback on narrative flow and impact.
8	Final Assessment and Reflection	Deliver a full-length presentation incorporating newly acquired techniques. Receive detailed feedback on strengths and areas for continued growth.	Reflect on progress and set a plan for maintaining and improving skills. Discuss strategies to integrate communication skills into daily work.

Additional resources: These are resources Nico can tap into:

- Record and review presentations for self-assessment.
- Read *Talk Like TED* by Carmine Gallo or *Made to Stick* by Chip Heath and Dan Heath.
- Join a local Toastmasters group.
- Access video-based feedback apps such as Speeko (<https://www.speeko.co/>), Just Learn (<https://justlearn.com/>), Yoodli (<https://yoodli.ai/>), or other AI apps for self-assessment of presentation skills.

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Outcome: By the end of the program, Nico will do the following:

- Communicate technical concepts in clear and relatable terms.
- Deliver structured and engaging presentations.
- Confidently handle Q&A sessions.
- Build trust and rapport with diverse audiences, preparing him for a successful transition into management.

Evaluation of success: Nico's success will be judged by these criteria:

- Feedback from his manager on his ability to lead meetings and communicate effectively with stakeholders and other diverse teams.
- Peer evaluations during mock presentations and role-play exercises.
- His own reflections on his progress and confidence during the final assessment.
- Observable improvements in clarity and engagement during real work scenarios, as reported by team members, colleagues, and managers.

Getting data-driven insights

AI excels at processing and analyzing large volumes of data, which can provide valuable insights into learner behavior, engagement, and achievement. Instructional designers can leverage data analytics to gain a deeper understanding of how learners interact with educational materials. For example, LMS equipped with AI can generate reports on learner performance trends, identify common challenges, and highlight areas for enhancement.

These data-driven insights enable instructional designers to make informed decisions about course design and content. By analyzing patterns and outcomes, designers can continuously refine instructional strategies, improve course materials, and better address the needs of learners.

Creating engaging interactive content

Integrating AI into instructional design helps you create interactive and engaging learning experiences. For example, AI technologies such as VR, AR, and gamification can transform traditional educational content into immersive and dynamic experiences. Here are a few examples:

- » VR simulations allow learners to practice skills in a virtual environment that mimics real-world scenarios. (Find out more in Chapter 16.)
- » AR can overlay digital information onto the physical world to enhance learning. (Get the details in Chapter 17.)
- » Gamified elements such as quizzes and challenges powered by AI can increase learner motivation and engagement by making the learning process more enjoyable and rewarding. (Check out Chapter 13 for more.)

These interactive tools not only capture learners' attention but also promote active participation and deeper understanding of the material.

Tailoring adaptive learning paths

Adaptive learning is a key principle in AI-driven instructional design, offering you the ability to create flexible learning paths that respond to learners' needs in real time. AI systems can adjust the sequence and complexity of instructional content based on learners' performance and progress. This adaptability ensures that learners receive the appropriate level of challenge and support throughout their T&D journey. Here are two examples:

- » **Business training program:** AI can provide additional practice and simplified explanations for employees struggling with financial forecasting while advancing proficient employees to complex topics like strategic planning or risk management. This keeps employees engaged and appropriately challenged.
- » **Retail training program:** AI can enhance targeted modules for employees struggling to develop customer service skills by offering role-playing scenarios involving things like product inquiries. For employees excelling in customer interactions, AI may introduce advanced topics like conflict resolution and upselling.

This adaptive approach ensures that each employee receives training tailored to their current abilities, promoting continuous improvement while keeping them engaged and motivated throughout their development in the workplace.

Streamlining assessment and feedback

AI technologies streamline assessment and feedback by automating tasks like grading quizzes, generating essays, and creating presentations that deliver instant results to help learners quickly recognize mistakes, adjust their approach, and stay on track. This rapid feedback loop not only saves trainers additional time but

also reinforces learning through timely course correction and continuous improvement. Here are two examples:

- » **Sales training:** AI can analyze a sales rep's performance, identify errors in their pitch or negotiation, and provide personalized feedback. It may recommend targeted exercises like role-playing or guides on effective closing techniques, helping the rep improve at their own pace.
- » **Human resources training:** AI can enhance HR onboarding by tracking progress through training modules. If a new hire struggles with compliance, it may offer additional resources like case studies or quizzes. If they excel, it can move them to more advanced topics, ensuring an effective onboarding experience.

Enabling scalability

AI in instructional design offers scalability, meaning it allows you to expand training materials effortlessly, reaching large groups without investing extra resources. This is ideal for companies with teams across different locations and time zones. Whether you're training small or large groups, AI-driven solutions like online courses or automated support systems deliver a consistent, high-quality learning experience.

Spanning Hard and Soft Skills

When you're designing the instructional materials for your next training session, it's important to think about the kind of skills you're focusing on: hard or soft skills. Simply put, hard skills are like hardware — the stuff you can see and use, like a computer or machinery. Soft skills are like software — the behind-the-scenes magic that makes the hardware work smoothly. You can't see them, but you sure need them to make everything run right!

Developing hard skills may require a structured, methodical approach, with clearly defined steps for learners to follow. On the other hand, soft skills training often takes a more flexible, experience-driven approach, where learners can practice interpersonal skills in real-world scenarios.

This is where AI comes in as a powerful ally. It can streamline and enhance your T&D materials by automating repetitive tasks, offering personalized learning paths, and creating dynamic, realistic environments that engage learners on a deeper level. Whether you're polishing technical skills or working on communication and

leadership skills, AI can adapt to the learner's progress and provide instant feedback, making the training process more efficient and impactful. By leveraging AI's capabilities, you can make both hard and soft skills training not only more effective but also more engaging and tailored to the individual.

Mastering hard skills

Hard skills are the technical abilities or knowledge workers gain through formal training. They're the how-to skills that are often tangible and measurable. When designing instructional materials for hard skills, focus on clear, step-by-step directions, supplemented with hands-on practice or simulations. Examples include software proficiency, data analysis, project management, machine operation, and the like.



REMEMBER

AI can be a game changer by offering personalized learning paths, automating assessments, and providing hands-on simulations or exercises that mimic real-world scenarios. Here's how:

- » **Personalized learning:** AI can adjust content based on learner performance, focusing on areas needing improvement. For example, it may suggest different coding exercises based on the learner's struggles with syntax or algorithms.
- » **Simulated virtual environments:** AI can create realistic simulations for practicing technical skills in a controlled setting. For example, it may generate a customer relations simulation with AI prompts based on the learner's previous performance.
- » **Automated feedback and assessments:** AI can grade quizzes, provide immediate feedback, and track progress. For example, AI tools can automatically grade Excel exercises and suggest improvements based on common mistakes.

Building soft skills

Soft skills, on the other hand, are the interpersonal or people skills that help to interact effectively with others. They're harder to quantify and teach — but they're just as critical in the workplace. Soft skills training often involves simulations, role-playing, and collaborative activities to help learners practice and internalize these skills. Examples include communication (listening, writing, presenting), leadership, time management, emotional intelligence, teamwork, and more.



REMEMBER

AI helps learners practice soft skills in a feedback-rich environment. Here's how it enhances soft skills training:

- » **Virtual coaching and feedback:** AI can act as a virtual coach, providing real-time feedback on communication and behavior, such as tone, clarity, and empathy. For example, AI-powered chatbots or video platforms can assess a learner's performance in customer service scenarios.
- » **Scenario-based learning:** AI can generate dynamic scenarios in which to practice soft skills like leadership or conflict resolution, adapting based on the learner's responses. For example, AI can simulate a crisis where learners lead a team.
- » **Natural language processing (NLP) for communication skills:** AI can use NLP to analyze learner's verbal and written communication skills, offering feedback on clarity, tone, and engagement. For example, AI may evaluate a presentation, providing insights on pacing, clarity, and body language.

Blending Instructional Approaches

AI technologies can complement traditional instruction through blended learning, combining AI tools with face-to-face teaching to create a flexible, personalized, and engaging environment. AI can handle routine tasks like grading and administrative work, freeing trainers to focus on interactive learning, while analyzing learner data to tailor content and adjust strategies in real time. In classroom settings, AI can support collaborative learning by suggesting group activities based on individual strengths, ensuring effective peer pairing. This integration of AI and traditional methods offers a holistic learning experience, combining the instructor's insight with AI's adaptability to foster active participation and richer learning outcomes.

Offering Continuous Improvement and Updates

When you embrace AI, it's like having a partner that's always working behind the scenes to improve your instructional design. AI supports continuous improvement by providing real-time analysis and feedback, making it easier to tweak and refine your training materials based on what is and isn't working. Here's how:

- » **Tracking learner performance:** AI analyzes learner data, identifying which modules are easy or challenging. If employees struggle with a digital marketing module, for example, AI may recommend adding interactive simulations or breaking down content into smaller sections.
- » **Adapting to emerging trends:** AI can flag new trends or tools, like popular social media platforms, suggesting updates to training materials to keep content fresh and relevant.
- » **Personalizing feedback:** AI provides detailed feedback, helping learners improve in key areas, while giving instructional designers insights into how well training strategies meet individual needs.
- » **Optimizing content delivery:** AI can analyze engagement patterns, recommending content types, like more video tutorials, to increase engagement and retention.



By leaning into AI's capabilities, instructional designers can embrace a mindset of continuous improvement. It's not about creating the perfect training program right out of the gate; it's about constantly evolving to meet learners' needs and stay ahead of the curve. AI ensures you're not just keeping up but staying proactive by delivering impactful learning experiences.

Enhancing Collaboration and Communication

AI tools can also facilitate collaboration and communication among learners and instructors by creating dynamic, interactive learning environments. AI-powered chatbots and virtual assistants can provide real-time support, answer questions, and foster interaction in both *synchronous* (real-time) and *asynchronous* (digital or recorded) settings. For example, during a live webinar, an AI chatbot can manage Q&A sessions, ensuring that learners' inquiries are addressed promptly and accurately. Similarly, in a self-paced online course, an AI virtual assistant can offer personalized feedback and facilitate discussions in a dedicated chat room.

Moreover, AI-driven discussion forums or collaborative platforms can enhance peer interaction by enabling learners to engage in meaningful dialogue, share insights, and work together on group projects. For instance, in a business strategy course, an AI-powered platform can organize breakout sessions where learners collaborate on case studies and present their findings to the group. This collaborative approach not only enriches the learning process but also helps build a sense of community among learners by encouraging active participation and teamwork.

Supporting Diverse Learners

AI can support a wide range of learning needs, assisting participants with various ability levels or language barriers by incorporating some of the following features:

- » **Adaptive interfaces:** Customizable features like larger fonts or simplified navigation cater to individual preferences.
- » **Customizable pacing:** Learners can progress at their own speed, enhancing engagement and retention.
- » **Gamification:** Gamelike elements such as the ability to earn badges and rewards engage and motivate learners.
- » **Language translation:** AI-powered translation tools make content accessible to non-native speakers, enhancing diversity.
- » **Personalized learning paths:** AI tailors experiences based on learner progress and needs.
- » **Real-time feedback:** Instant feedback helps learners address mistakes and reinforce learning.
- » **Social learning:** AI enables collaborative projects and discussions, promoting peer learning.
- » **Speech-to-text transcription:** AI assists learners with hearing loss or writing challenges by transcribing spoken words.
- » **Support for different learning styles:** AI provides resources suited to visual, auditory, and *kinesthetic* (hands-on) learners.
- » **Text-to-speech conversion:** AI helps learners with vision loss or reading difficulties by converting text to speech.
- » **Visual aids and interactive content:** Multimedia like videos and simulations support different learning styles.



REMEMBER

By integrating these features, you can create an inclusive environment that not only accommodates learners with varying abilities and backgrounds but also enhances overall engagement and effectiveness in the T&D process.

Addressing Ethical Considerations

Using AI in instructional design raises important ethical concerns, including data privacy, algorithmic bias, and digital divide issues. The goal is to use AI responsibly, prioritizing learners' well-being and fairness. AI relies on data, so it's crucial

to be clear about what's collected and how it's used. Instructional designers should work with developers to implement strong data-protection measures to build trust. Algorithmic bias can reinforce stereotypes if AI is trained on biased data. Designers can help by advocating for diverse datasets and testing AI systems to ensure fairness for all learners.

The digital divide means not everyone has equal access to technology. Designers must create inclusive AI solutions that work on lower-bandwidth connections or offer alternatives for learners without reliable device access. In short, these ethical challenges are human issues. By addressing them, you can ensure AI benefits all learners.

Here's a quick checklist with 7 Golden Rules to help you keep AI use in instructional design both smart and responsible:

1. Keep learner data safe and clearly explain how it's handled.
2. Watch out for bias by testing tools and pushing for diverse datasets.
3. Make sure your solutions work even with low internet speeds or limited devices.
4. Design with fairness so everyone has a chance to succeed.
5. Team up with developers to build in strong protections and transparency.
6. Be upfront with learners about when and how AI is being used.
7. Keep checking results and adjusting as needed to stay fair and effective.



As an experiment, I asked ChatGPT something a bit “unethical” just to see how it would respond. It politely declined saying, “I won’t help with any illegal or clearly unethical requests.” It passed my ethics test, at least in this instance.

- » Maximizing learners' experience with customized training
- » Using your knowledge of your audience to make T&D meaningful
- » Evaluating different learning methods and training structures

Chapter 7

Structuring Training for Lasting Results

After many years in the tech world, Matteo craved a break — seven days without screens or gadgets, just a map and the open road. But the hand-drawn map his colleague prepared turned his getaway into a nightmare. Instead of a clear route, it was a jumble of highlighted paths that left Matteo in an endless loop. He even circled the same diner three times as the scent of simmering rich tomato sauce slowly wafted through the air, reminding him of his grandma's kitchen. Matteo couldn't resist, so he stopped in and ordered a plate of lasagna. Certainly not as good as grandma's, but good enough. While the meal didn't fix his navigation issues, each cheesy, rich bite reminded him that sometimes clarity comes in unexpected forms — whether it's a meal that steadies your mood or a well-structured training plan that guides learners without frustration. Matteo's colleague knew the route well enough but didn't communicate it clearly. We've all been in sessions where the trainer was knowledgeable, but the delivery . . . not so much.



REMEMBER

When everyone knows the goal, the steps, and the significance of the training, things flow smoothly. Like Matteo's lasagna, each element in training plays a part in creating something satisfying. Whether you're traveling, making lasagna, or designing a training program, thoughtful preparation and precise structure are key.

In this chapter, you explore how to structure your training and development (T&D) for maximum impact. You break down the key elements that keep learners engaged, ensure they retain the information you're imparting, and make your sessions flow seamlessly. From setting clear objectives to designing interactive experiences, you discover how to create a well-organized training program that feels natural and relatable. And as you consider how AI fits into this structure, it's important to align your approach with effective delivery methods.

Creating a Themed Session

Regardless of the type of training, each has flavor and personality that's bound to leave a lasting impression. With that in mind, consider giving your sessions a fun theme — something that adds a little extra spice to the learning experience. An appealing theme keeps things engaging and memorable, making the whole process more enjoyable for everyone. Check out these two examples:

Example 1: Time Management and Productivity Training Theme: *The Recipe for Efficiency*

Think of this training as cooking up a five-star meal that leaves everyone satisfied. It's about combining the right ingredients — time, focus, and prioritization — into a balanced and delicious dish. Participants learn to “measure out” their tasks like they're weighing flour for the perfect cake, “chop away” distractions as if prepping veggies for a stir-fry, and “sauté” productivity techniques until they're sizzling with flavor. By the end, they'll have a workflow as smooth as a velvety pasta sauce, ready to serve up success with every bite.

Incorporating actual food can make this training even more engaging. For example, learners can share a team-building experience by chopping vegetables to symbolize cutting out distractions or assembling a layered dish like lasagna to demonstrate prioritization and task sequencing. It's a hands-on way to bring your training concepts to life — and a tasty one, too!

Example 2: Team Building and Collaboration Theme: *The Adventure Quest*

This gamelike training transforms team building into an exciting quest. Teams embark on an adventure to solve riddles, tackle challenges, and achieve shared objectives. Participants unlock their strengths by completing puzzles that highlight individual talents, navigate obstacles like time limits or tricky scenarios, and celebrate victories with symbolic rewards, like earning keys to open a treasure chest. Through these interactive activities, they strengthen their ability to communicate, foster trust, and build a strong sense of camaraderie — all while having a blast along the way. (Find out more about game-based learning in Chapter 13.)



You may notice some imagery and themes woven throughout this book. Chapter 2, for instance, whisks you into an AI Emporium — a bustling marketplace filled with tools and tech treasures. This chapter, on the other hand, is layered with lasagna metaphors — because who doesn’t love a story with extra layers (or lasagna for that matter)? Themes aren’t just for fun; they help tie ideas together, make concepts more memorable, and show how creativity can enrich T&D. So, keep an eye out for the analogies I’ve sprinkled in, like breadcrumbs guiding you along an adventure trail.

Understanding Your Learners

Understanding your learners is the foundation of effective training. Much like making lasagna, you wouldn’t add a layer of meat if some of your diners are vegetarians. Similarly, in training, you need to know who your learners are, what motivates them, and how they learn best. Without this insight, even the best strategies will fall flat. Don’t assume learners will fill in the gaps for you.

The following sections help you “see” your learners so you can prepare content that’s relevant and lasting.

THE VALUE OF KNOWING YOUR LEARNERS

The following table illustrates how the principles and key questions of knowing your learners apply equally to cooking and training.

Key Questions	Cooking	Training
Who are your guests/learners?	Know your guests’ dietary needs (for example, if they’re vegetarian or dairy-free) so you can adjust the recipe.	Understand your learners’ backgrounds, needs, and preferences so you can tailor the content.
What’s the goal?	The goal of preparing a meal is to create a dish (like lasagna) that everyone can enjoy.	The goal of training is to ensure learners walk away with the knowledge and skills they need.

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Key Questions	Cooking	Training
What are the essential steps or concepts?	The essential steps in preparing lasagna are choosing the right ingredients, layering them properly, and baking it well.	In training, you need to break complex information into digestible parts and ensure learners understand the basics before moving forward.
How will you deliver it?	Your delivery involves preparing, layering, baking, and serving the lasagna.	Your delivery is how you present the material — for instance, interactive videos, workshops, or hands-on exercises.

Filling out the T&D Kick-Start Brief

Planning your approach to T&D is a lot like preparing for a blind date. You don't just show up and hope for the best — you do your research. You ask mutual friends, check out your date's social media, and maybe even strategize a few conversation starters. Why? Because the more you know going in, the better your chances of making a meaningful connection. Training works the same way. That's the value of filling out the T&D Kick-Start Brief, which I cover in detail in Chapter 8.



When I ask learners to fill out the Kick-Start Brief during the training sessions I facilitate, many people initially say they don't have time for exercises like this — but once they dive in, it's a whole different story. (I can't believe the wows!) They quickly discover insights about their audiences — what they value, how they communicate, and what motivates them. That clarity makes their messages sharper, their confidence stronger, and their connections more effective.

Relating to their goals

Each learner walks into training carrying their own mental map marked with personal and professional goals. Your mission is to help them connect the dots between their starting point and their ultimate destination. Whether they're on a quest to sharpen their skills, tackle a big project, or level up in their career, remind them how every step they take in training fuels their journey. If they're working on something specific, be their guide, pointing out how each action moves them closer to their goal. When learning feels personal, it morphs from being just another task into an exciting, purposeful challenge — one they'll be eager to master!

Building on prior knowledge

Connecting your training to what learners already know makes concepts easier to grasp. For example, if you're teaching a team to use a new project management tool, you may say, "Think of this like the shared spreadsheets you've used before, but with automated tracking and reminders to keep everything organized without extra effort." By integrating this type of context into your training, you're not just telling people what to do — you're showing them why it matters. This approach can boost their motivation and make the entire process feel more worthwhile.

Bringing in interactive elements

Incorporate a variety of interactive components, such as games, polls, and discussion prompts, throughout your training materials to create a dynamic learning environment. By integrating these elements, you not only keep learners engaged but also encourage meaningful participation and interaction. These interactive features can stimulate critical thinking, foster collaboration, and enhance retention of the material, making the training experience more enjoyable and effective for everyone involved.

Encouraging questions and feedback

Creating an open dialogue can enhance learners' understanding of your material. Invite your learners to ask questions, share their own stories, or offer thoughts on how they see the T&D tasks fitting into their larger goals. This not only clarifies any confusion but also fosters a sense of collaboration and engagement.

Sharing social proof through stories

Stories add powerful *social proof* (evidence that others have successfully navigated similar situations) to your training, helping learners see concepts in action and understand their real-world impact. (Find out more about incorporating stories into your training in Chapter 9.)



TIP

AI can help you out by generating case studies, scenarios, and visuals that make abstract ideas real and personal. Success stories illustrate how internalizing training concepts leads to positive outcomes, such as improving customer service or streamlining workflows. AI-generated visuals (see Chapter 10), like screenshots and videos, clarify complex tasks by highlighting key features, while before-and-after comparisons show the impact of applying new knowledge, motivating learners with clear, positive results. By making learning more engaging and relatable, AI-driven storytelling transforms training into a more immersive and effective experience.

When people understand the consequences of their actions, they're more likely to pay attention — and what better way to drive the point home than with a good story? Sharing a scenario where things went off the rails (or completely crashed and burned) makes lessons stick. Maybe a minor data entry mistake led to a major decision based on bad info, or a missed step caused delays that rippled across an entire team. Connecting these missteps to their real-world impact (like damaged relationships or lost opportunities) helps learners see why details matter. And when they realize their role is key to a project's success, they're more likely to take ownership.

Dividing Content into Manageable Pieces

You want learners to leave your training feeling energized and satisfied, not overwhelmed. Breaking information into manageable chunks ensures that they feel confident without being overloaded. Methods like chunking and microlearning allow you to serve knowledge in just the right portions, whether you're tackling a process, organizing complex concepts, or offering quick bites of information.

This section explores the similarities and differences of various learning methods, highlighting how each method divides complex content into digestible pieces for easier absorption and retention.

Breaking content into chunks

Breaking content into chunks is like cutting a lasagna into meal-sized portions. In training, “portions” can be split into modules like “Introduction,” “Key Concepts,” “Practical Application,” and “Review.” For example, when onboarding new employees, you may break training into distinct modules to introduce tools and systems more effectively.

Module 1: Introducing the Company Culture

Module 2: Navigating Internal Tools

Module 3: Essential HR Processes

Module 4: Performance Expectations

Organizing your training with chunking

Chunking isn't just about breaking content into sections. It's about grouping related material in a way that makes sense. Think of it like layering a lasagna,

ensuring each bite has the right balance of noodles, cheese, sauce, and meat. AI can help streamline this process by analyzing your content and suggesting logical groupings, making training more cohesive and digestible. For example, when you're teaching a complex software program, AI can assist by organizing lessons into meaningful chunks such as the following:

Chunk 1: Basic Navigation — How to access key features

Chunk 2: File Management — Saving, opening, and organizing files

Chunk 3: Advanced Features — Customizing settings and reports

Engaging learners with microlearning

Microlearning is like serving up a small nibble of lasagna — just enough to satisfy without overwhelming the palate. Imagine you're rolling out a new feature in your project management tool. Instead of requiring learners to sit through a lengthy training session, you create a 2-minute video that walks them through the process of creating a new project. The video is concise, visually engaging, and accessible on any device. Learners can watch it during a quick break or during lunch, apply the knowledge immediately, and then revisit it anytime they need a refresher. This bite-sized approach ensures the information sticks without overwhelming learners with unnecessary details.



TIP

AI can break training into chunks and facilitate microlearning by analyzing content and dividing it into manageable parts based on learner needs. It can offer bite-sized lessons, quizzes, or interactive modules focused on one idea at a time, ensuring learners aren't overwhelmed. AI also tracks progress, adjusting difficulty and pace to match the learner's experience. For example, AI can push out a microlearning refresher on customer service tips right before a busy sales season, based on user performance data or calendar cues.

ENCOURAGING INTERACTION

Engaging your learners isn't just about delivering instructions — it's also about creating a welcoming space where everyone feels comfortable joining the conversation. Here are some effective ways to encourage participation and foster open dialogue:

- **Invite questions.** Let your learners know that questions aren't just welcome; they're celebrated. Make it clear that curiosity is encouraged. A simple "No question is too small — we can be curious together!" can go a long way.

(continued)

(continued)

- **Use checkpoints for reflection.** Sprinkle in some checkpoints along the way. After key points, pause and ask, “How’s everyone feeling about this? Thumbs-up if you’re good, or a hand wave if you need a little more info.” This makes the training interactive and keeps everyone engaged.
- **Solicit input with a smile.** Throughout training, and especially after giving instructions, invite feedback with an enthusiastic, “I’d love to hear your thoughts! What clicked for you, and what needs a little more sparkle?” This not only allows you to gather insights but also makes your learners feel valued.
- **Follow up with a friendly check-in.** Once a training task wraps up, touch base with your learners. A casual “Hey, how did that go for everyone? Any lingering questions or thoughts?” shows you genuinely care about their experience and are eager to keep improving.

You can use AI tools to encourage feedback in the following ways:

- **Automated surveys:** AI can generate and distribute surveys after interactions or projects, making it easy for users to provide feedback.
- **Real-time analytics:** By analyzing user behavior, AI can identify areas where feedback is needed and prompt users to share their thoughts.
- **Sentiment analysis:** AI can analyze user comments and reactions to gauge satisfaction, prompting follow-up questions for clarification.
- **Personalized prompts:** Based on user interactions, AI can offer tailored prompts that encourage users to share their experiences or suggestions.
- **Gamification:** AI can introduce gamelike elements, rewarding users for providing feedback, which makes the process more engaging.

Examining Different Ways to Train Learners

In the next sections, I explain various types of learning structures, including cross-training, adaptive learning, peer-to-peer training, branched scenarios, spaced learning, and scaffolding training. You can mix and match these methods to create the most effective training programs for your learners.



You’ll notice that I created a variety of table headings in the following sections, rather than just sticking to pros and cons. When you present a fresh perspective, you prevent the content from feeling repetitive.

Making teams stronger with cross-training

Think of cross-training like being a sous-chef learning to master multiple stations in the kitchen. One day you're perfecting sauces; the next, you're chopping vegetables and herbs or plating desserts. Similarly, in a business environment, cross-training allows learners to gain skills beyond their primary roles, making teams more flexible and interconnected. Done right, it's a win-win for everyone — but balance is key to avoid burnout or any loss of specialized expertise.

Like everything else, cross-training comes with pluses and minuses, as illustrated in Table 7-1.

TABLE 7-1 **Pros and Cons of Cross-Training**

Pros	Cons
Improved teamwork: Cross-training breaks down barriers between specialized groups and builds respect by helping employees understand each other's roles.	Risk of burnout: Too much responsibility can overwhelm employees.
Increased flexibility: Teams adapt better during busy times or when covering absences.	Loss of expertise: Overemphasis on general skills may reduce specialization.
Career growth: Employees discover new talents and boost their job satisfaction.	Workload disruptions: Implementation can temporarily disrupt day-to-day operations.
Better problem-solving: Fresh perspectives lead to creative solutions.	Negative perceptions: Some may see it as unpaid extra work or a strategy to cut staff.



REMEMBER

AI can enhance cross-training by personalizing learning paths, identifying skill gaps, and providing real-time feedback. It can adapt training content based on each learner's progress, offer interactive simulations for hands-on practice, and automate administrative tasks, making the process more efficient and tailored to individual needs.

Tweaking training with adaptive learning

Adaptive learning systems assess learners' starting points, customize their paths, and adjust as they progress to ensure the right level of challenge. Think of adaptive learning like a personal chef who tailors the recipe to your preferences, adjusting the ingredients in real time. Table 7-2 outlines the pros and cons of adaptive learning.

TABLE 7-2

Perks and Pitfalls of Adaptive Learning

Perks	Pitfalls
Personalized experience: Content is tailored to individual needs for better learning outcomes.	High cost: Implementing adaptive systems can be expensive and resource-intensive.
Faster skill development: Areas for improvement can be quickly identified, speeding up progress.	Tech dependency: Learners must have reliable internet and devices, which may limit access.
Better engagement: Interactive features keep learners motivated and involved.	Privacy risks: Extensive data collection raises security risks and ethical concerns.
Real-time feedback: Instant adjustments help learners stay on track and improve.	



REMEMBER

AI powers adaptive learning by personalizing content, tracking progress, and adjusting in real time to meet each learner's needs. It identifies skill gaps, provides instant feedback, and creates dynamic learning paths, ensuring efficient and engaging training tailored to the individual.

Relying on peer-to-peer training

Peer-to-peer training is like a skilled apprentice teaching fellow apprentices. Imagine a group of sous-chefs learning to make lasagna from a master chef who's perfected the art of layering, seasoning, and baking it. This chef shares their knowledge, demonstrating techniques and guiding others through the process of crafting the perfect dish, from preparing the sauce to assembling the layers. The upsides and downsides of peer-to-peer training are illustrated in Table 7-3.

TABLE 7-3

Upsides and Downsides of Peer-to-Peer Training

Upsides	Downsides
Encourages collaboration: Peers can share knowledge and support each other, fostering teamwork.	Inconsistent quality: The quality of training may vary depending on the peer's experience and skill level.
Keeps costs down: Relying on peer trainers reduces the need for external trainers or formal training programs.	Lack of formal expertise: Peer trainers may not have the experience or qualifications of a professional trainer.
Fosters a comfortable learning environment: Learners may feel more at ease asking questions in a less formal setting.	Limited scope: Peer trainers may not be equipped to cover all topics in depth.
Improves retention: Teaching others reinforces the peer trainer's own learning.	Inconsistent delivery: Peers may interpret the material differently, leading to variation in delivery.

Upsides	Downsides
Builds trust and morale: Peer learning strengthens relationships, which can boost team morale.	Potential for bias: Peer trainers may unintentionally favor certain colleagues or overlook diverse learning styles.
Offers flexibility: Peer-to-peer training can be scheduled at times that are most convenient to participants.	Power imbalance: In some cases, peers may have issues with authority or control in the learning environment.



TIP

AI can significantly enhance peer-to-peer training by personalizing learning paths to match individual needs, providing real-time feedback to help learners course-correct instantly, and offering enhanced collaboration tools that make knowledge-sharing seamless. It can also generate content tailored to specific topics, create virtual simulations and augmented reality experiences for hands-on learning, and analyze performance to identify strengths and areas for improvement. By integrating AI into peer training, you can foster a more dynamic, interactive training environment.

Exploring branched scenarios

A branched scenario is an interactive real-world learning technique where participants are presented with a series of decision points, each leading to different outcomes. This allows them to explore the consequences of their choices in a safe environment. Each choice branches off into a distinct path, creating a nonlinear learning experience.

Here are some highlights of branched scenarios:

- » **Decision-making practice:** Learners make choices that affect the outcome, improving their critical thinking and problem-solving skills.
- » **Immediate feedback:** Each decision provides feedback, helping learners understand the impact of their actions.
- » **Realistic context:** Scenarios mimic real-life challenges, making the training more relevant and engaging.
- » **Multiple outcomes:** Depending on the path chosen, learners experience different consequences, reinforcing learning through exploration.

Example: Skylar is a 34-year-old manager with a background in project management and a passion for team development. Recently promoted after five years in a leadership support role, she gained valuable experience in conflict resolution and employee engagement. Known for her approachable leadership style, Skylar is

eager to prove herself in her new role but must navigate the challenges of managing a diverse team. Her response to a workplace conflict will shape how her team views her leadership. Here are three branches with corresponding learning outcomes:

- 1. Mediation:** Facilitating a structured conversation between conflicting employees. Overseeing employee interaction helps them express concerns and find common ground.
Key learning outcome: *Improved team dynamics.* Mediation fosters a positive work environment and empowers employees to resolve future conflicts constructively.
- 2. Ignoring the issue:** Avoiding the conflict, hoping it resolves itself. If it doesn't, tensions rise, morale declines, and productivity suffers.
Key learning outcome: *Conflict escalates.* Ignoring conflicts often worsens problems, emphasizing the importance of timely intervention.
- 3. Escalating too soon:** Involving HR or higher management without attempting to resolve the issue at the team level. Employees may feel disempowered, leading to disengagement and a lack of trust in leadership.
Key learning outcome: *Employees feel unsupported.* Premature escalation can undermine team autonomy and trust, highlighting the value of direct, informal resolution.

While branched scenarios can make training more engaging by letting learners explore different choices and consequences, they have some downsides. They take more time and resources to design and build compared with linear content. Too many branches can confuse learners or make the scenario feel overwhelming. And if you need to update the content, changes often have to be made across multiple paths, which can be tricky to manage.



REMEMBER

AI enhances branched scenarios by personalizing the experience based on the learner's role, choices, and performance. It offers real-time feedback, helping learners see the impact of their decisions, and adapts scenarios to keep the experience engaging. With AI's natural language processing capability, learners can interact conversationally, making the scenarios more immersive and natural. These features boost the effectiveness of branched scenarios in developing decision-making skills.

Processing ideas with spaced learning

Spaced learning is also a lot like making lasagna — it's all about thoughtful layering and giving things time to come together. You don't just dump all the

ingredients into the dish at once; instead, you carefully layer the sauce, pasta, cheese, and other ingredients, allowing each component to contribute to the final masterpiece. Similarly, spaced learning allows the learner's brain to process each layer of information over time, creating a richer, more cohesive understanding. The result of patience and care, this type of learning requires spacing out the process to let everything settle and shine.

Pros:

- » **Better memory retention:** Knowledge can be reinforced over time for lasting recall.
- » **Deeper understanding:** Time between sessions helps learners connect ideas, enriching their comprehension.
- » **Real-world application:** Applying what they've learned cements learners' knowledge, like tending a garden of herbs or savoring a perfectly layered lasagna.
- » **Less mental fatigue:** Shorter, spaced sessions reduce cognitive overload.

Cons:

- » **Time-consuming:** Spaced learning requires patience and persistence for long-term success.
- » **Commitment:** Regular follow-ups are essential.
- » **Initial difficulty:** Recalling information after breaks can feel like waiting for seeds to sprout — or waiting for lasagna to bake to perfection.



TIP

AI can help to design a spaced learning program by recommending review schedules, tracking learner progress, and personalizing when each concept should be revisited.

Building skills with scaffolding training

Scaffolding training is an approach where support is gradually reduced as learners become more skilled and confident. Think of it like guiding someone up a ladder: you start with plenty of support and gradually step back as they gain independence. Here's an example: In a management training program:

- » **Initial support:** New managers receive step-by-step guidance during performance reviews.

- » **Intermediate practice:** They conduct reviews independently but receive feedback afterward.
- » **Independent mastery:** Feedback decreases as they handle reviews on their own.

Following are the five steps to successful scaffold training.

1. Assess skill level.

Understand where learners currently stand to tailor support appropriately.

2. Provide initial support.

Use step-by-step instructions, examples, explanations, and demonstrations.

3. Gradually reduce support.

Move from guided tasks to open-ended ones, reduce hints, and encourage independent decision-making.

4. Encourage autonomy.

Have learners solve problems on their own, apply learning in real-world contexts, or teach concepts to others.

5. Offer feedback and encouragement.

Reinforce correct practices and correct misunderstandings promptly.

Effective scaffolding techniques include modeling tasks while explaining your thought process, using think-alouds for learners to verbalize their reasoning, encouraging collaborative learning in pairs or groups, chunking complex tasks into manageable pieces, and incorporating visual aids like diagrams, flowcharts, or concept maps to show relationships between ideas.

Pros:

- » Promotes deeper understanding and application.
- » Builds confidence through step-by-step mastery.
- » Encourages self-regulated, lifelong learning.
- » Improves retention with incremental practice and feedback.

Cons:

- » Time-consuming to plan and implement effectively.
- » Risk of overdependence if support isn't properly phased out.

- » May stifle creativity if support is excessive.
- » Difficult to gauge the right level of support for each learner.
- » Requires adaptability and professional skill from the trainer.
- » Can be confusing or ineffective if misaligned with learners' needs or development level.



REMEMBER

Use AI to support scaffolding by personalizing guidance, tracking learner progress, and suggesting when to introduce the next challenge. Effective techniques include modeling tasks while explaining your thought process, using think-alouds for learners to verbalize reasoning, encouraging collaborative learning, chunking complex tasks into manageable pieces, and incorporating visual aids like diagrams, flowcharts, or concept maps. Gradually reduce support as learners gain confidence to help them achieve independence.

3

**Doing It Yourself
(DIY) with AI**

IN THIS PART . . .

Explore your learners' world to meet them where they are.

Weave stories into your T&D materials for deeper engagement.

Rev up training with visuals that capture attention and clarify concepts.

Use the right tone to connect, motivate, and inspire.

- » Knowing the benefits of the T&D Kick-Start Brief
- » Letting the Kick-Start Brief be your guide to developing successful training
- » Determining the best method of delivering the training
- » Making AI your reliable sidekick

Chapter 8

Discovering All You Can About Your Learners

Think of yourself as the quintessential sleuth, Sherlock Holmes, donning a deerstalker cap with a magnifying glass in hand. As the trainer, *you're* the detective — piecing together clues about your learners. Whether they'll attend your session to ease workplace conflicts, master new software, strengthen teamwork, or sell the latest product, your training materials are the case files you investigate. It's your skill in connecting the dots that helps you crack the case — turning insights into solutions that make the session meaningful, relevant, and lasting.

Imagine your T&D content as a cryptic map tucked inside Dr. Watson's notebook, filled with essential information, curious case studies, instructive success stories, and practical tips disguised as “elementary” observations. No dense jargon. No overreliance on slides. Instead, you've laid out a trail so clear and engaging, even Inspector Lestrade wouldn't miss them.

So, how do you craft this brilliant case file (training)? Start with your learners. Who are they? Why are they attending your training? What type of content will stick with them like fingerprints on a glass of brandy? Enter the T&D Kick-Start Brief that follows — your trusty casebook and the focus of this chapter. With some

assistance from AI (which you find sprinkled throughout the chapter as well as at the end), you can tailor your training materials to your learners' needs in a fraction of the time it took Sherlock to solve the case in *The Hound of the Baskervilles*.

Introducing the T&D Kick-Start Brief

The T&D Kick-Start Brief, shown as Figure 8-1, is your turbo booster to fire up your training engine and keep your sessions humming like a well-oiled machine. It's packed with 13 questions. (In this case 13 is a lucky number — the X factor you need for extra creativity, sharper insights, and laser-focused attention to detail.) Think of this Brief as your secret weapon, a bit like Sherlock's knack for spotting what others overlook — helping to ensure that your training isn't just good but rather extraordinary.

T&D Kick-Start Brief

By answering these questions, you'll be prepared to design a training program that's not only informative and engaging, but one that helps learners apply the session's content in their real-world work situations.

1. What are the learning objectives?
2. Who are the target learners?
3. Will they be positive or negative toward the training?
4. What's their level of understanding about the topic?
5. What's the key message learners need to remember?
6. What content *needs* to be covered?
7. How will the content be presented?
8. How will learners engage with the material?
9. What resources and materials are needed and available?
10. What are the potential challenges or obstacles?
11. How will feedback be collected and used?
12. What follow-up or reinforcement is needed?
13. What key questions like *who, what, when, where, why, and how* need to be answered?

FIGURE 8-1:
T&D Kick-Start
Brief to
turbocharge
your sessions.

Filling out a T&D Kick-Start Brief helps ensure that you know where you're headed and the best way to get there. It will help to clarify your goals, understand your learners, and map out the key points to be covered.

LESSONS FROM THE TRENCHES

I use a version similar to this T&D Kick-Start Brief in my business/technical writing training sessions. Initially, I can practically hear the learners' collective groans. *Oh, no. More paperwork to fill out! My schedule's already bursting at the seams; I don't have time for this!* They worry it's just one more task piled onto their already overloaded plates. But as they dig into the Brief, it's like Sherlock himself has shown up with a magnifying glass to reveal loads of information about their readers. After they use the Brief to design and structure any document they need to complete, they change their tune — dramatically. Suddenly, it's like they've discovered the golden elixir. I've heard people exclaim, *How did I ever get by without this?* And the best part? They often report later that it slashed their prep time by 30 to 50 percent!

But don't just take my word for it. This brief isn't just for T&D. Think of it as your Swiss Army knife for all types of communication. Here's what Gary (name changed) had to say after attending my business writing session and unlocking the incredible value of the Brief:

I can't overstate how transformative the Kick-Start Brief has been. After more than 30 years in the field, I've seen countless tools come and go, but this one truly stands out. The Brief gives me a clear, structured way to understand my readers and meet their needs. It's a roadmap for success that takes the guesswork out of writing and gives me the confidence to get started every time.

What impresses me most is just how versatile the Brief is. Whether I'm drafting a detailed report, a quick email, or a full presentation, it adapts seamlessly. It keeps me focused, helps me clarify my purpose, and ensures that my writing hits the mark every time.

When paired with AI, it becomes even more powerful — but the real game-changer is the Brief itself. It's the foundation that makes my communication sharper, clearer, and far more effective than before.

Although you may be going into this chapter with the same initial groans, I can assure you that by filling out the T&D Kick-Start Brief — and letting AI be your Dr. Watson — your training will be much easier to map out and your learners will thank you.

Donning Your Deerstalker Cap: Searching for Clues about Your Learners

This section walks you through using the T&D Kick-Start Brief to gather all the essential details before diving into developing the session. With this Brief at your fingertips, you can identify the key objectives of your training materials as well as your learners' needs and how to engage them. It will help you prepare your training session like Sherlock investigates a mystery (Figure 8-2), meticulously collecting clues, and piecing them together to get to the heart of the matter (or in your case heart of the training session).



FIGURE 8-2:
Channeling your
inner Sherlock.

Visual Generation/Adobe Stock Photos



REMEMBER

The Brief isn't about you — it's about your learners. Once you start to really think about who they are and what they need, you'll naturally shape how the content should be delivered. Regardless of who will be delivering the training, your preparation will make it easier for them to connect with the learners in a meaningful way. The following sections, which align with the questions on the T&D Kick-Start Brief, will help you get started.

1. What are the learning objectives?

To truly understand your learners' objectives, it helps to step into their shoes and see the training from their perspective. Ask yourself: *What do they hope to achieve? What challenges are they facing? How can they apply this to their workday?* By identifying their goals, you can tailor your approach, prioritize content, and anticipate

questions before they arise. This mindset shift transforms your session from a one-size-fits-all lecture into a targeted learning experience that actually meets learners' needs.



TIP

AI can be a real game-changer here. By analyzing data from surveys, assessments, or past training sessions, AI can highlight common skill gaps, preferences, and learning styles. It can even suggest tailored content or training paths for different learner groups, making your session more relevant and effective. Here are some practical ways AI can help:

- » **Personalize learning:** Recommend resources, exercises, or examples that match each learner's goals.
- » **Analyze responses:** Quickly identify patterns in learner feedback or Kick-Start Briefs to uncover hidden needs.
- » **Predict challenges:** Highlight areas where learners may struggle so you can address them proactively.
- » **Streamline prep:** Generate outlines, examples, or practice exercises aligned with learner objectives, saving you planning time.

With AI as your assistant, the insights from the Brief become actionable, letting you design training that's both efficient and highly engaging.

2. Who are the target learners?

Assessing the characteristics of your target learners helps you customize the training content to meet their individual needs and avoid both underchallenging and overwhelming them.

Ask yourself these questions:

- » What are your learners' current skill levels and prior knowledge?
- » Do they face any logistical constraints, such as time limitations, access to technology, or geographical location?
- » What's their primary language, and are there any language barriers?
- » Do they require materials in different languages or with translation support?
- » Are there any generational or cultural disparities?
- » Are you aware of any accessibility or accommodation needs you must address to ensure everyone can fully participate in the training?

- » How motivated are they to participate in and complete the training?
- » What factors may affect their engagement or enthusiasm?



TIP

You can learn about your participants by conducting surveys or interviews, reviewing past training records, or consulting stakeholders — and AI can make this process faster and more precise. It can analyze responses, uncover patterns in prior learning, and even predict areas where learners may struggle. By processing this data quickly, AI helps you tailor your training, anticipate challenges, and ensure that every session is relevant, engaging, and effective.

3. Will they be positive or negative toward the training?

It's important to understand whether or not learners will attend the training voluntarily or if they've had their arms twisted ever so slightly. If they're positive or neutral about the learning experience, your job will be easy. However, if someone is twisting their arm to attend, you can try the following tactics:

- » **Acknowledge reluctance:** You may start with something lighthearted by asking everyone to give a thumbs-up if they actually woke up excited for training. Then laugh and say, *Great, the rest of you are in good company! or You spend your day solving other people's problems — today we'll tackle one that will actually help you.*
- » **Start with relevance:** Immediate value grabs attention. Show early on how the training connects to their daily work or goals. Imagine starting a customer-service training by asking: *How many of you handled a frustrated client this week?* Right away, the session ties to a real, recent challenge — showing the training is about solving their daily problems, not abstract concepts.
- » **Keep it interactive:** Break content into short, active segments such as polls, small group exercises, role-plays, or hands-on tasks that keep them tuned in.
- » **Use real examples:** Relatable scenarios make abstract concepts concrete and memorable.
- » **Set clear expectations:** Let learners know what they'll gain by the end, and focus on practical takeaways.
- » **Mix in choice:** Allow learners to pick activities, examples, or discussion topics where possible to give a sense of control.

Even the toughest learners respond better when they feel the session is designed for them, not at them.



TIP

AI can help you win over skeptical learners by personalizing your training content, making it more engaging and relatable. Interactive simulations show real-world applications of the material, while instant feedback corrects misconceptions in real time, boosting confidence. AI-driven insights pinpoint learner struggles, enabling targeted support, and dynamic content keeps learners interested. Additionally, AI fosters peer learning, creating a collaborative environment that enhances understanding and acceptance of new ideas.

4. What's their level of understanding about the topic?

To communicate effectively with diverse learners, consider their unique perspectives and information-processing styles. Understanding what influences their comprehension can significantly enhance your message's clarity and impact. Here are a few questions to guide you in tailoring your content and how you communicate it: Do your learners have any preconceived ideas? What are the barriers to their understanding of the topic? What acronyms, initials, or abbreviations will you need to explain? And here are a few examples that show you how to drill down to the specifics:

- » **How do they process information?** Process-oriented learners (academics, scientists, tech experts) prefer step-by-step explanations. Answer-oriented learners (businesspeople and lawyers) want quick answers. Creative types (copywriters and graphic designers) benefit from visuals like charts and tables. (See Chapter 10 for more on visuals and AI support.)
- » **What jobs do they perform?** Tailor your training content to your learners' roles. For example, shop-floor workers need hard copies, managers focus on key issues, technical staff want details, and salespeople prioritize knowing the benefits.



TIP

AI can help a trainer determine a learner's level of understanding in advance by analyzing presession surveys, assessments, or past performance data. It can highlight likely skill gaps, predict areas of confusion, and suggest personalized content or activities to address each learner's needs before the training begins.

5. What's the key message learners need to remember?

Ever had a song stuck in your head that just won't leave? That's an earworm. It loops again and again until you catch yourself humming it in the grocery line. Training works the same way. Only instead of a pop tune, you want your learners

walking away with *your key message* replaying in a loop. So ask yourself: what's the earworm you want stuck in their heads long after the session ends — the one key message you want them to remember?

According to Carmen Simon, a cognitive neuroscientist, people remember only about 10 percent of what they've learned 48 hours later. *Take control of that 10 percent.* Focus on the most important point — the one thing that really matters. It should stand out like a vibrant scoop of rainbow sherbet in a bowl of plain vanilla ice cream. Here's an example:

Let's assume you're training customer service reps on handling complaints. The single most important point might be: *Listen first, respond second.* Highlight it at the start, repeat it during a role-play, show it on a simple visual, and wrap up the session by asking each learner to share one way they'll apply it immediately. That one idea becomes the rainbow sherbet in the bowl of vanilla — the earworm.



TIP

AI can help you zoom in on the single most important thing learners should remember by sifting through learning objectives, content, and even past learner data to pinpoint what really matters. It can highlight the skills or concepts that will have the biggest impact on their work, suggest which points to emphasize during the session, and even create quick reference guides or visuals to reinforce the message. AI can also flag areas learners are most likely to forget, so you can weave in extra support exactly where it's needed.

6. What content *needs* to be covered?

Determine what part of your content is critical and what's simply nice to know. This helps you focus on the most important information without getting bogged down by details. It also helps you choose what to leave out if you find yourself pressed for time.

Here's how you can prioritize content in workplace safety training, for example:

- » **Critical to know:** To prevent harm, everyone must follow safety protocols, legal requirements, and emergency procedures. Critical information includes proper equipment use, hazard recognition, and compliance with industry regulations where mistakes can lead to serious consequences.
- » **Nice to know:** Background on safety regulations or industry trends adds context but doesn't directly impact anyone's job performance.



TIP

AI can help you identify what needs to be covered by

- » Analyzing learner data
- » Identifying trends
- » Personalizing recommendations
- » Optimizing content
- » Gathering real-time feedback

7. How will the content be presented?

Determine which format or formats will be best for your learners. Will your training be *synchronous* (presented in real time), *asynchronous* (recorded for learners to access at their convenience), blended, or hybrid? Will you deliver it using *gamification* (gamelike elements like rewards for reaching certain levels), virtual reality, augmented reality, or something else? Consider a variety of delivery methods to keep learners engaged. (Check out Table 8-1 for quick comparison of the different modes of delivery, with examples, and the learners they're best suited for.)

TABLE 8-1

Determining the Best Mode of Delivery

Type of Delivery	Examples	Best Suited For
Synchronous	Live online classes, webinars, in-person workshops, video conferencing (via Zoom, Teams, and the like), virtual instructor-led training, live Q&A sessions	Workers who benefit from real-time interaction and collaboration, such as teachers, managers, healthcare professionals, PR professionals, and salespeople
Asynchronous	Prerecorded videos, self-paced eLearning modules, discussion boards, email-based courses, mobile learning apps, video tutorials	Employees who prefer flexibility and self-paced study, such as engineers, analysts, IT professionals, remote workers, content creators, and marketers
Blended	In-person kickoff followed by online modules, flipped classrooms, lab-based learning with virtual theory components, cohort-based LMS programs	People who benefit from structure with some flexibility, such as corporate trainers, consultants, sales professionals, HR staff, and marketers
Hybrid	Simultaneous in-person and online modules, livestreamed classes with in-person attendance, virtual reality labs with on-site access	Learners who value choice and adaptability, such as students, project managers, marketers, PR professionals, and team leads



TIP

AI can help you identify the best way to present content by

- » Assessing learner preferences
- » Analyzing engagement patterns
- » Recommending effective formats
- » Adjusting content in real time
- » Leveraging past data

8. How will learners engage with the material?

To maintain engagement, you can supplement your training with interactive elements such as worksheets, group discussions, simulations, role-playing, case studies, hands-on activities, interactive videos with polls and quizzes, and game-based learning. Additionally, consider personalizing the training experience and reinforcing key concepts with live Q&A sessions, peer collaboration, breakout sessions, scenario-based challenges, and adaptive learning paths (covered in Chapter 7).



TIP

AI can predict how learners will engage with materials by analyzing historical data, learning preferences, and interaction patterns. It uses this information to recommend content formats and delivery methods likely to resonate with specific audiences. Additionally, AI can monitor real-time engagement, such as click rates or time spent on activities, to identify and adjust strategies for optimal learner involvement.

9. What resources and materials are needed and available?

During or after the session, you can make additional resources easily accessible to learners in a variety of ways. You might send follow-up emails with key materials and links, or create shared cloud folders where they can access documents any-time. If you're using a learning management system (LMS), uploading resources there provides a structured, central location. Printed handouts can serve as quick-reference guides, and QR codes can link participants directly to videos, templates, or other materials. You can also foster ongoing collaboration by sharing resources through discussion boards or group chats.

Additional resources may include any of the following:

- » Guides or tip sheets
- » Software and tools
- » Checklists and templates
- » Technical equipment
- » Training locations
- » Tutoring or mentoring
- » Books, white papers, and articles
- » Collaborative platforms
- » Online forums and groups
- » Professional associations



REMEMBER

This is where AI really shines. It can analyze content for relevance and quality, ensuring supplemental materials are aligned with your training objectives. It uses natural language processing to extract key topics, making resource discovery more efficient. Recommendation systems can personalize learning by suggesting materials based on learner profiles and past performance. AI also tracks industry trends, keeping training up-to-date, and assesses the credibility of resources to ensure you're using best materials.

10. What are the potential challenges or obstacles?

Anticipate and address potential challenges learners may face, such as dealing with areas of complexity in the material, understanding its relevance to their job performance, and accessing additional resources and support channels (like forums, mentorships, or follow-up sessions). Think ahead about where people might get stuck or lose interest, and plan ways to help them stay on track. Maybe that means breaking down tough concepts into smaller steps, using more real-world examples, eliminating any phrases or jargon they may not understand (see the nearby sidebar, “Translating trainer talk”), or providing quick reference guides they can turn to later. A little extra support goes a long way in keeping participants engaged and confident.

TRANSLATING TRAINER TALK

In training sessions, things can move pretty fast. Bouncing around ideas. Giving feedback. Answering questions. Keeping an eye on the clock. And all while trying to cover a wealth of materials. Along the way, we sometimes include familiar sayings or catch phrases without realizing that many people in the audience may not understand them. When participants speak different first languages, even everyday English expressions can be confusing.

To help everyone follow along more easily, the following table shares a few common expressions we often use in training sessions, along with clearer ways to say the same thing:

Instead of saying	Say this instead
"Got it!"	<i>I understand the point.</i>
"Let's circle back."	<i>We'll return to this topic later.</i>
"Take it from the top."	<i>Let's start over.</i>
"You're all set."	<i>You have everything you need.</i>
"Let's drill down."	<i>Let's look at the details more closely.</i>
"That's a good call."	<i>That's a smart decision.</i>
"Keep me in the loop."	<i>Please keep me updated.</i>
"Let's table that."	<i>Let's discuss that later.</i>
"Think outside the box."	<i>Try to come up with creative ideas.</i>
"We're on the same page."	<i>We agree and understand each other.</i>



TIP

AI can help you identify obstacles or challenges to training through several key approaches, including the following:

- » Analyzing data
- » Assessing feedback
- » Forming predictive analytics
- » Gauging sentiment
- » Tracking engagement

11. How will feedback be collected and used?

Collecting feedback is one of the most valuable things you can do after a training session. It tells you what worked, what didn't, and what might need a little tweaking next time. Think of it as your roadmap for improvement. You can gather feedback from different sources — each giving you a unique angle on how effective your session really was. Your collection methods may include any of the following:

- » Feedback forms
- » Surveys
- » Engage managers in feedback
- » Quick polls
- » Follow-up interviews
- » Observation of on-the-job behavior
- » Learning analytics (e.g., completion rates, quiz scores, participation data)
- » Peer feedback



TIP

AI can streamline feedback collection by creating automated surveys, analyzing participant sentiment, and monitoring learner interactions in real time. It can evaluate feedback to identify patterns, pinpoint areas for improvement, and suggest actionable changes.

12. What follow-up or reinforcement is needed?

Training has value only if there's follow-up because learning without subsequent application leads to forgetfulness and wasted resources. For training to be effective, the new skills or knowledge must be actively used and reinforced. This means learners must implement procedural updates, practice new techniques, and receive ongoing support to ensure that the training translates into real, lasting improvements and behavioral changes. Without follow-up, training is merely a one-time event rather than a transformative experience.

Here are some strategies to reinforce learning and ensure retention:

- » Post-training resources
- » Follow-up sessions

- » On-the-job support
- » Help desks or forums
- » Ongoing learning opportunities
- » Mentoring or coaching



TIP

AI can strengthen this process by providing personalized reminders, adaptive learning paths, automated skill assessments, and performance analytics that highlight areas needing reinforcement. It can also deliver just-in-time microlearning or simulate real-world scenarios, helping learners apply knowledge in practical, meaningful ways.

13. Which key questions like who, what, when, where, why, and how need to be answered?

Take a look at Table 8–2 for a sneak peek at some questions you’ll want to consider when prepping your session. I say “sneak peek” because this is just a starting point. You’ll have many more questions specific to your topic and expertise, and some questions in the table may not apply to your current training session. Think of it like a recipe: This is your base, but you’ll want to substitute or add your own spices and special ingredients to make it truly your own.

TABLE 8-2

Questions for Preparing a Training Session

	Your Questions	Learners’ Questions
Who . . .	Are my learners? Is a subject matter expert I can tap? Can provide logistical/technical support?	Will be impacted by this change? Can I contact if I need help?
What . . .	Are learners’ major concerns? Are the key learning outcomes? Are the common misconceptions about this subject? Are the most important topics? Are the key subtopics? Is the best method of delivery? Stories and anecdotes can I share? Feedback mechanisms will I use to gauge success?	Are the options? Specific skills will I gain? Tools or resources will I need? Are the main takeaways?

	Your Questions	Learners' Questions
When . . .	Is the best time to deliver this training? Will assessments and/or follow-ups be conducted? Should I deliver the handouts?	Will I start to see results? Will this be available? Does this take effect?
Where . . .	Can learners get more information?	Will the funding come from?
Why . . .	Is this important to learners? Are they attending?	Is this being recommended?
How . . .	Will I open and close the session? Will I keep learners engaged? Does this relate to the strategic impact? Will I handle questions (during or after the session)?	Is this relevant to my current role? Can I incorporate this into my daily work? Will I or my manager track my progress?

You'll notice two sets of questions. The first set, **Your Questions**, focuses on what you need to consider as you prepare your session — everything from logistics to content. The second set, **Learners' Questions**, highlights what your learners may be wondering or thinking as they experience the training. Using the questions in the table as a guide will help you anticipate your learners' needs and ensure you're delivering value from their perspective.

Using AI as Your Assistant

Much like Dr. Watson, Sherlock's trusted assistant, who carefully observes, records, and supports investigations, AI tools serve as insightful companions in the training world. These tools help track learner progress, note patterns, and flag areas needing attention, providing the kind of dependable guidance that ensures nothing is overlooked. By offering real-time insights and organized data, AI supports trainers in reinforcing learning, monitoring application, and fine-tuning follow-up — acting as a vigilant assistant that helps make training more effective and impactful.

Here are some ways AI can be your Dr. Watson to help you analyze and tailor your training content:

- » **Evaluating learners:** Analyze assessments, track progress, and highlight skill gaps.
- » **Assessing competitors:** Scan market data and summarize competitor strategies.

- » **Breaking down traffic:** Interpret website or training platform traffic, showing where learners engage most.
- » **Reviewing and improving content:** Check clarity, readability, and relevance, and suggesting updates.
- » **Tracking behavior:** Monitor learner interactions to identify patterns and predict future needs.
- » **Evaluating learners:** Analyze assessments, track progress, and highlight skill gaps.

Just as Sherlock never leaves a detail overlooked, AI ensures no learner's needs go undetected, enabling you to create highly tailored, data-driven experiences. These are just a few of the websites to help you get started:

- » **CrowdView** (<https://crowdview.ai/>): AI search of forums and communities to surface real user questions and pain points — useful for spotting learner challenges and hot topics.
- » **GapScout** (<https://gapscout.com/>): Analyzes customer reviews to find themes, sentiment, and gaps — helpful for improving training content and benchmarking competitors.
- » **User Persona** (<https://userpersona.dev/>): Generates detailed personas with goals, behaviors, and pain points — great for tailoring training to different learner profiles.



WARNING

AI can never replace your judgment, intuition, or understanding of your learners. Using AI as a crutch risks overlooking what only you can see and interpret. You must bring your own intelligence and the sharp eye of a detective to analyze learners at different levels. The insights you gather will guide how to structure your training, which style of expression to use, whether a formal, informal, or conversational tone is most effective, what content to include, and how to introduce each topic. Remember: It's elementary, my dear Watson.

IN THIS CHAPTER

- » Using AI tools to enhance your storytelling
- » Connecting with learners through AI-generated stories
- » Creating narratives that draw learners into your training
- » Tapping into real experiences to make stories relatable
- » Mapping your story flow with a storyboard

Chapter 9

Weaving Stories into the Learning Journey

Imagine you're on a guided tour in Rome, walking through timeworn streets while your storyteller-guide brings ancient civilizations to life. With each tale you imagine yourself there, and you're no longer just observing. You're part of the history. Now, picture that same magic in a training and development (T&D) session. Instead of a procession of dull slides and endless bullet points, lessons unfold like chapters in a gripping novel. Characters face challenges, overcome obstacles, and make the material feel real. Learners are engaged, thinking critically, and connecting the dots naturally. By the end, they don't just leave with knowledge about a new product or process — they carry a sense of excitement, eager to apply what they've learned and explore it further.

This chapter walks you through the influence of storytelling and shows you how you can use AI to help you transform your standard training into an unforgettable journey. You discover how to craft compelling stories that engage emotions, make your message memorable, and inspire growth and change.

Giving a Storytelling Boost with AI Tools

With AI as your assistant, you no longer have to spend hours brainstorming storylines or trying to find the right tone. With just a few simple prompts, AI can whip up engaging stories that capture attention and spark emotion. (Take a peek at Chapter 5 to learn more about prompts.) AI draws from a vast understanding of themes, characters, and plot structures to create narratives that feel authentic and relatable.

What makes this so powerful is how AI blends creativity with data. It doesn't just tell a story; it tailors one. Need a light, humorous scenario for a customer service module? Done. Want a suspenseful team challenge that keeps learners on the edge of their seats? Easy. AI can adjust tone, emotion, and pacing to fit the exact learning goal.

Here, in alphabetical order, are just a few of the popular chatbots that can help with your storytelling:

- » **ChatGPT** (<https://chatgpt.com/>)
- » **Claude** (<https://claude.ai/>)
- » **Copy.ai** (<https://www.copy.ai/>)
- » **DeepSeek** (<https://www.deepseek.com/>)
- » **Perplexity** (<https://www.perplexity.ai/>)
- » **Rytr** (<https://rytr.me>)
- » **Squibler** (<https://www.squibler.io/>)
- » **Writesonic** (<https://writesonic.com/>)

Using these AI tools, you can make T&D storytelling a lot more dynamic and personalized. Instead of one-size-fits-all case studies, AI can generate scenarios tailored to different roles, industries, or even learning styles. For example, a sales trainee may want a story focused on client objectives, while a new manager can walk through a leadership dilemma — all generated on the fly to match their needs. This makes the content feel more relevant and engaging, which helps learners stay interested and retain more information.

AI also helps bring stories to life with multimedia elements. It can create voice-overs, characters, visuals, or even interactive storylines that allow learners to make decisions and see the consequences. It's a great way to simulate real-world experiences in a safe environment. By combining creativity with data-driven insights, AI makes storytelling a much more powerful tool for learning.



REMEMBER

Even though AI can spin a pretty good tale, it's your personal touch that brings it to life. You have your own voice, rhythm, and quirks. That's what makes your stories sparkle. So, think of AI as the sous-chef; you're still the head chef who adds the secret ingredients.

TURNING A SNOOZEFEST INTRO IN TO AN ATTENTION GRABBER

It started with a yawn — literally. My client's safety training opened with a flat, predictable script that lost learners in seconds. With a little help from AI, that same opening turned into a powerful wake-up call that made every listener think, "Wow! *That could've been me.*" Let's take a look at the **Before** and **After**.

Before: *Unengaging, drab, and boring*

A hypergol technician didn't follow requirements and caused a major fuel spill. He was burned. He was using a tool that fell to the floor causing two employees to spill a caustic battery electrolyte on their hands. The batteries hadn't been through qualifying testing. There were no requirements to prevent the technicians from working with unqualified batteries. That's why it's important to follow the guidelines.

After: *Engaging and relevant*

In the bustling space station of Nova Prima, there was a young and enthusiastic hypergol technician named Ethan who was known for his unwavering dedication to his craft. Ethan had always been diligent about strictly following all protocols and requirements.

However, one fateful day an unexpected twist of events changed Ethan's life. Amidst the chaos of his busy work schedule, Ethan found himself overwhelmed and distracted. In a moment of carelessness, he neglected to follow safety protocols while handling a volatile fuel mixture. It resulted in a catastrophic fuel spill that haunts Ethan to this day.

As the station's emergency response team fought to contain the danger, the spilled fuel came into contact with a fallen tool. It caused Juan and Alexi to suffer from caustic battery electrolyte burns on their hands. Both needed to be hospitalized and had residual scarring.

Consumed by guilt, Ethan ultimately became a beacon of prevention within the department, inspiring others to prioritize safety above all else. Ethan's story attests to the need to follow guidelines!

Training through Tales

There are many reasons to include stories in your T&D. Whether you're sharing a personal experience, a relevant case study, or a metaphor-filled lesson, each type of story plays a unique role in helping learners grasp new ideas and apply them effectively. In this section, you explore the various types of stories that can elevate your training, from those that highlight essential concepts to those that build trust and deepen your connection with your learners. By understanding how to select and craft the right story, you can make your training sessions engaging, impactful, and memorable.

Following a straight storyline

A *straight storyline* is a simple, linear sequence of events with a clear beginning, middle, and end. It moves in chronological order without flashbacks, twists, or complex subplots, making it easy to follow from start to finish. This makes it an ideal structure for expressing clear, focused learning objectives.



AI
SPOTLIGHT

Here's an example how AI made a story come alive:

Prompt: Make this into a story using a conversational tone in no more than 3 paragraphs. Employees like Sarah Johnson and Michael Nguyen benefit from SkillSync's personalized training programs. Sarah, who prefers visual learning, receives tailored content that enhances her understanding and retention. Meanwhile, Michael, who learns best through hands-on experiences, participates in simulations that improve his practical skills. SkillSync's AI ensures that Sarah and Michael both achieve higher job performance and career advancement through effective, personalized training.

AI response: In a busy office filled with creativity, two employees stood out: Sarah Johnson and Michael Nguyen. Both eager to advance in their careers, they approached learning in very different ways. Sarah thrived as a visual learner, absorbing information through colorful charts and engaging videos, while Michael preferred hands-on experiences, excelling in simulations and role-playing.

Enter SkillSync, a cutting-edge training company that recognized their unique needs. Sarah was the first to experience SkillSync's magic, as their AI, SyncBot, created an interactive learning journey just for her. She was immersed in vibrant videos and infographics that made concepts come alive, helping her master new skills and enhancing her creativity. Meanwhile, Michael dove into thrilling simulations designed to reflect real-world challenges, sharpening his problem-solving abilities and leadership skills with each adventure.

As the weeks passed, Sarah became an expert in her field, impressing colleagues with stunning presentations, while Michael emerged as a go-to problem-solver, admired for his practical skills. Thanks to SkillSync's personalized approach, both

soared in their careers, inspiring others in the office to pursue their own unique learning journeys. SkillSync not only enhanced their skills but also fostered a dynamic environment where everyone could achieve greatness in their own way.

Drawing learners in with interactive stories

Interactive stories engage learners by allowing them to make choices that shape the narrative, creating a more immersive and personalized experience.



AI
SPOTLIGHT

Going back to the prompt in the previous section, here's how AI made the same story interactive:

Prompt: Make this into an interactive story where the learners have input as to how this may be solved. Employees like Sarah Johnson and Michael Nguyen benefit from SkillSync's personalized training programs. Sarah, who prefers visual learning, receives tailored content that enhances her understanding and retention. Meanwhile, Michael, who learns best through hands-on experiences, participates in simulations that improve his practical skills. SkillSync's AI ensures that Sarah and Michael both achieve higher job performance and career advancement through effective, personalized training.

AI response: Sarah Johnson is in a high-tech training session ready to engage with a new visual learning module. Suddenly, the system experiences a glitch, and the content begins to stutter. She needs to troubleshoot the issue to access her training materials. Meanwhile, in the simulation lab, Michael Nguyen is set to begin a challenging hands-on training session. However, his simulation tool malfunctions, presenting him with unexpected scenarios he must navigate to succeed.

What do you want to do first?

1. Help Sarah fix the glitch in her training module.
2. Assist Michael in overcoming the unexpected challenges in his simulation.

If you choose to help Sarah, she identifies that the glitch is due to a software update. Should she . . .

- A. Try to fix the software herself using troubleshooting tips?
- B. Reach out to the IT team for assistance?

If you choose to assist Michael, he must decide between two approaches. Should he . . .

- A. Use a cautious strategy to minimize risk?
- B. Include a branching scenario for choices that lead to different outcomes, helping them see the real impact of the decisions.



REMEMBER

You can re-prompt as many times as you wish.

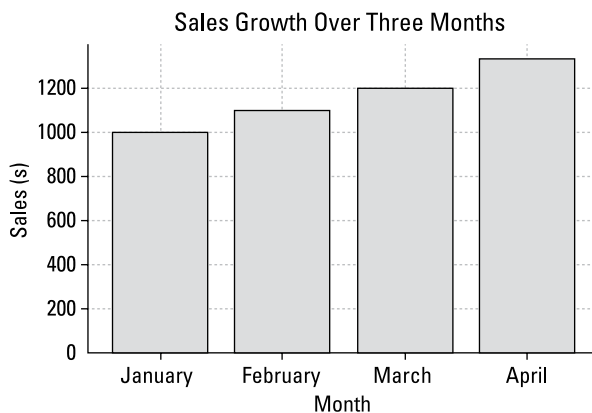
Turning data into a story

Turn numbers into a story and see how dry data comes alive. A good story helps learners see the *why* behind the *what* to spark both memory and emotion — making learners pay attention and remember.



AI
SPOTLIGHT

In Figure 9-1, I prompted AI to whip up a bar chart based on the details I outlined. Then I took it a step further and asked AI to turn that data into a story. AI didn't just crunch numbers; it breathed life into them.



Every January, Sam the salesman promised himself, “This is my year!” But this time, he meant it. Armed with a shiny new planner and a bottomless mug of coffee, he started tracking every call, every lead, and every deal. By February, his efforts paid off—sales up 10%! He celebrated with a slice of office cake (okay, two slices).

In March, he got creative. Instead of just pitching products, he started telling little stories—how each item could make customers’ lives easier. People loved it. Another 10% jump! Sam began to feel like the hero in his own success story, cape made of spreadsheets and confidence.

By April, he was unstoppable. His sales soared again, and his coworkers started asking for his “secret.” Sam just grinned and said, “Consistency—and maybe a little sugar.” After all, every superhero needs fuel for the climb.

FIGURE 9-1:
AI created a bar chart then turned the data into a story.

Graphic created with assistance from ChatGPT (OpenAI).

Illuminating ideas through analogies

Analogies are a fantastic storytelling tool because they make complex concepts relatable and easier to grasp. By comparing something unfamiliar to something familiar, learners can connect the dots — just like in the tour guide analogy that opened this chapter. Analogies invite learners to see ideas from a fresh perspective, sparking curiosity, engagement, and retention.



SHERYL
SAYS

I asked AI to dream up an analogy for this chapter's opening, and it came up with a guided tour through Rome. I liked the idea so much that I gave it my own twist and wording.



AI
SPOTLIGHT

Think of AI as your coauthor to spin relatable analogies such as the one in Figure 9-2.

In just a few sentences create a fun analogy for a new employee orientation program.

A new employee orientation is like the first day of a theme park adventure: you get a map, a guide shows you the rides, and you learn the rules so you can safely explore and enjoy everything the park has to offer. By the end, you're not just a visitor—you're ready to join the fun and make your own ride exciting.

FIGURE 9-2:
AI helps to create
an analogy of a
theme park for
new hires.

Graphic created with assistance from ChatGPT (OpenAI).

Analogies strip away the emotional baggage and contextual clutter that often cast a shadow over reality, allowing learners to focus purely on the core message. This makes it easier to understand and internalize new information, paving the way for deeper insights and applications in real-world scenarios. It's like holding up a mirror that reflects the essence of an idea, making it clearer and more accessible to everyone involved.

Preparing case studies

AI is like a creative wizard for building case studies. By streamlining content development and personalizing learning experiences, AI enables trainers to design more relevant, engaging, and adaptive scenarios. Following are some key ways AI can help you prepare effective case studies for workplace training:

- » **Adaptive difficulty:** Based on learner performance, AI can adjust the complexity of case studies in real time to match learning levels and goals.

- » **Automated scenario generation:** AI can generate realistic workplace scenarios based on specific industries, roles, or challenges, helping trainers create tailored case studies quickly.
- » **Content updates and trend alignment:** AI can scan industry news and internal reports to keep case studies current, aligning scenarios with emerging trends, regulations, or technologies.
- » **Data-driven customization:** AI analyzes company data or training outcomes to design case studies that reflect actual patterns, performance gaps, or customer interactions.
- » **Multilingual/multicultural support:** AI can translate or localize case studies for global teams, ensuring the context and tone are appropriate across cultures.
- » **Real-time feedback integration:** AI can provide instant feedback on learner responses during case study activities, highlighting strong reasoning and pointing out areas for improvement.
- » **Role-play simulations:** AI-powered tools can simulate conversations or decision-making paths within a case study, allowing learners to engage interactively with the material.

Looking at other types of story formats

You can prompt AI to create any type of story you think is appropriate for your session. Whether you're looking for a straightforward narrative, an interactive experience, or a thought-provoking case study, the possibilities are endless. Check out these other storytelling options:

- » **Digital storytelling:** Incorporating technology, such as slideshows, podcasts, or interactive apps, to present the story in a modern and dynamic way.
- » **Experiential learning:** Activities designed to simulate real-world experiences or challenges, providing hands-on learning opportunities.
- » **Flashback technique:** Presenting a story out of chronological order, using flashbacks to build suspense or highlight important background information.
- » **Game-based learning:** Framing the story in a gamelike format where participants can earn points or rewards based on their decisions or contributions to the narrative.
- » **Multimedia presentation:** Combining various media (text, audio, and video) to create a richer storytelling experience that appeals to different learning styles.

- » **Narrative-based quizzes:** Using quizzes with a storyline to frame questions and challenges, making the assessment process more engaging and contextual.
- » **Role-play:** Participants acting out parts of the story, immersing themselves in the characters' experiences, which can enhance empathy and understanding.
- » **Scenarios:** Detailed descriptions of hypothetical situations that learners analyze and respond to, often used to illustrate concepts and apply skills.
- » **Story circles:** Participants sharing their own related stories, fostering a sense of community and connection to the topic.
- » **Visual storytelling:** Using images, videos, or infographics to complement the narrative, making it more engaging and memorable.

Each of these methods caters to different learning styles and objectives, enhancing engagement and retention in training sessions. The T&D Kick-Start Brief (see Chapter 8) is a great assessment tool that can help you choose the best storytelling method for your training. It will help you understand your learners better, design training that truly meets their needs, and create engaging, effective learning experiences.

THE POWER OF A GOOD THEME

In Chapter 8 you step into Sherlock Holmes mode — magnifying glass in hand, ready to pick up every clue about your learners. You're the clever detective, piecing together the evidence to uncover what motivates them, what challenges them, and how to help them succeed. This illustrates just how powerful a theme can be. It transforms something as routine as researching your learners into a memorable mission. Instead of just collecting data, you're solving a mystery. That's the value of a strong theme. It adds energy, focus, and imagination to the learning process.

Think of your theme like the soundtrack to a movie. It sets the mood, adds energy, and keeps everyone engaged from start to finish. But you don't need to go overboard with props or elaborate metaphors. A simple, clear theme can make your message more memorable and your learners more connected to the experience. Here's how to build a simple theme that works:

- **Start with your goal.** What's the main takeaway? If your training is about teamwork, maybe your theme is a pit crew or a band.

(continued)

(continued)

- **Add a fun hook.** A catchy title like “Wanted: Bridge Builders” sets the tone before you even start. A theme could be bridges, traffic flow, or puzzle pieces (to name a few).
- **Weave it through.** Sprinkle your theme in slides, handouts, examples, even your opening and closing. The key is consistency, not clutter.
- **Keep it accessible.** Go for something everyone can relate to: journeys, challenges, building blocks, growth, etc. Avoid cultural references or idioms that might confuse learners from different backgrounds.

So pick a theme, set the scene, and watch your learners light up when they realize they’re part of a story, not just another training session.

Think of AI as your brainstorming partner (like Sherlock’s Dr. Watson) sparking ideas you can adapt and bring themes to life with your own creative twist. AI can help you brainstorm ideas, generate titles, design visuals, or even suggest metaphors that match your training goals. For instance, if your training is about customer service, AI might help create a “superhero academy” theme — where employees gain different powers like problem-solving, empathy, and quick thinking to save the day for customers. Or if your session is about learning new software, AI could propose a video game adventure theme, turning each feature into a level to conquer with badges and rewards along the way. AI can also help generate catchy titles, draft visual ideas (like a treasure chest for onboarding or a rocket for a space theme), or suggest fun metaphors that make the content more memorable.

Spinning Your Experiences into Stories

You already have stories from your day-to-day experiences — whether they’re personal, overheard, learned, or observed. In Chapter 8 you explore the T&D Kick-Start Brief, a tool that helps you understand your learners’ needs and interests. By using this framework, you can craft tailored narratives that resonate with your learners, making your stories relevant. Table 9-1 gives suggestions on putting together your own stories in a way that appeals to your learners.



SHERYL
SAYS

You don’t need fancy tools — just the willingness to capture something important before it slips away. That’s why I keep a file of stories, photos, moments, and observations. Whether it’s a scribbled note, a quick voice memo, or a napkin sketch, it all goes into the file. Then, when I need an example, some inspiration, or just a spark, I can pull from that treasure trove of experiences. Start your own file — because life is full of stories, and you never know when a tale from the past may be exactly what you need.

TABLE 9-1

Creating Your Own Stories

Step	Details
Define your objectives.	<p>Identify your learning goals: Determine which specific skills, knowledge, or behaviors the training aims to impart.</p> <p>Understand your audience's needs: Tailor the storyline to the background, preferences, and needs of your learners.</p>
Define the core narrative.	<p>Create a central theme: Choose a theme that aligns with your training objectives (a business challenge, a personal development journey, a customer service scenario, and so on).</p> <p>Establish a setting: Define the context or environment where the story takes place. This helps ground the narrative and makes it relatable.</p>
Craft a plot.	<p>Develop a sequence of events that guides learners through the training objectives. The plot should include a beginning (introduction of the scenario), middle (development and challenges), and end (resolution or outcome).</p>
Build characters and roles.	<p>Design characters: Create characters who embody different roles or perspectives related to training content. These can be protagonists, antagonists, or supporting characters. (Give them names to make them seem real.)</p> <p>Define character goals: Give each character clear objectives or motivations that drive the storyline.</p>
Integrate your learning points.	<p>Embed key concepts: Weave your training content into the storyline. Ensure that each part of the plot introduces or reinforces key concepts and skills.</p> <p>Design challenges and decisions: Include scenarios where characters must make decisions or solve problems, reflecting the learning objectives you've set.</p>
Make your story interactive.	<p>Include branching scenarios: Allow learners to make choices that influence the outcome of the story. This creates an interactive experience and reinforces the impact of different decisions.</p> <p>Incorporate feedback mechanisms: Provide immediate feedback based on learners' choices to help them understand the consequences of their actions.</p>
Ensure your story has realism and relevance.	<p>Use realistic scenarios: Share situations and problems that reflect real-world challenges and environments relative to your learners' roles.</p> <p>Include practical examples: Use examples and scenarios learners are likely to encounter in their jobs and personal lives.</p>
Integrate multimedia events (when relevant).	<p>Enhance the story with visuals and audio: Use images, video, and audio to enrich the storyline and make it more engaging.</p> <p>Incorporate interactive tools: Use tools like simulations, quizzes, or role-playing to enhance the interactive elements of the story.</p>
Test and refine your story as needed.	<p>Pilot the storyline: Run a pilot test with a small group of learners to gather feedback on the effectiveness and engagement level of your story.</p> <p>Refine based on feedback: Make adjustments based on learner feedback and performance to improve the storyline's effectiveness.</p>

Including a script

You can bring your training sessions to life by opening with a story instead of the usual *Hello, my name is . . .* This can really spice things up and grab your learners’ attention right away. It sets a more engaging tone and helps you create a connection. This is one example of using a scripted format:

Activity	Duration	
<p>Open with the following story:</p> <p><i>Ezra, a seasoned project manager, thought he had everything under control for the launch of a highly anticipated software product. Eager to make a splash, he set overly ambitious deadlines and skipped some critical steps, like thorough testing and getting feedback from key stakeholders.</i></p> <p><i>As the launch date neared, it became clear that the product was riddled with issues — features didn’t work as promised, bugs were everywhere, and it just didn’t perform in real-world scenarios. What was supposed to be a groundbreaking release turned into a major flop, with disappointed clients and scathing reviews.</i></p> <p><i>Instead of a successful launch, Ezra and the team were left dealing with a public relations nightmare and a costly mess that may have been avoided with better planning and communication.</i></p> <p><i>Effective project management requires thorough planning, clear communication, and stakeholder involvement at every stage. These aren’t just steps in the process; they’re the foundation for success. Today, we’re going to explore how to avoid pitfalls like the ones Ezra faced, to ensure that your projects meet or exceed expectations and deliver real value.</i></p>	2 minutes	
<p>Welcome the learners.</p> <ul style="list-style-type: none">• Introduce yourself.• Show slide of the key concepts to be covered.	5 minutes	
<p>Discuss project management concepts.</p>	30 minutes	
<p>Divide the group into three teams and have them apply the project management concepts you’ve discussed to some case-study scenarios.</p>	15 minutes	

EMBELLISHING YOUR STORYLINES

Embellish your stories to make them come alive. In *The Hobbit*, Gandalf told Bilbo to add flair to his tales when he returned from his adventure. He was right! Adding details, humor, metaphors, or visuals makes your story memorable. As the saying goes, “Never let the truth get in the way of a good story.” It’s about the impact, not just the facts. Here’s an example:

- **Boring one-sentence storyline:** Muhammed attended the training session and learned a few new techniques.
- **One-sentence story embellished and enhanced by AI:** In the middle of the buzzing conference room, keyboards clicking and participants chatting excitedly, Muhammed dove right into the lively training session. The trainer was sharing cutting-edge techniques and strategies, and Muhammed’s mind was racing with fresh ideas that could completely transform the way he worked.



REMEMBER

In addition to kicking things off with a great story, wrap up with one. And sprinkle some fun stories and anecdotes throughout your presentation. By sharing little tales along the way, you keep things lively and relatable, making your session not just informative but also entertaining. It’s like adding a dash of spice to an otherwise bland meal.

Culling Stories from Colleagues

Subject matter experts (SMEs), sales and marketing folks, customer service reps, project managers, friends, relatives, and any others who have regular contact with people have accumulated a gold mine of stories, experiences, insights, and anecdotes over the years. They probably don’t even realize how much they have to share because they’re content experts, not necessarily storytellers or trainers. So, while they may be great at explaining a process or translating technical jargon, when it comes to distilling that knowledge into compelling narratives, they can probably use a little help. Interviewing them will allow you to bring their stories to life and craft them into captivating storylines for your training sessions.

Creating a level of comfort

To make your colleagues feel comfortable, assure them you’ll disguise all people, locations, and incidents in their stories to protect their privacy. Emphasize that both negative and positive stories are valuable — while negative stories highlight

lessons to be gleaned from mistakes, positive stories showcase successes and best practices. Finally, let them know you'll show them each story before you share it, getting their approval for what you've written. This fosters trust and ensures their stories remain accurate and impactful.

Asking leading questions

These folks have seen firsthand how their industry has evolved, how challenges were overcome, or how innovative solutions transformed a situation. By asking about these pivotal moments in their careers or the impactful experiences of others, you can uncover stories that add real-world context and depth to your training.

Here's a checklist with a few questions to consider that will help you bring stories to the forefront:

- ☐ Can you share a time when a person or team did something particularly well? What made that situation successful?
- ☐ Can you describe a specific situation where someone did something they shouldn't have, and what the outcome was?
- ☐ What's an example of when clear communication (or the lack of it) made a significant difference in the outcome of a project?
- ☐ Tell me about a time when someone ignored best practices and it backfired. What happened and what could have been done differently?
- ☐ Can you share a story where someone showed remarkable resilience after a setback or failure? How did they bounce back?
- ☐ Have you ever observed someone maintaining their composure during a high-pressure situation, and how did that help them or the team succeed?
- ☐ What's a story about someone who resisted change or innovation, and how did that affect the outcome?
- ☐ What was the context or environment like during this story?
- ☐ How did the organizational culture or external factors influence the outcome?
- ☐ Were there any unique circumstances that made the situation particularly challenging or rewarding?
- ☐ What's a story you've heard from colleagues or clients that illustrates the value of your work or the challenges people face?

- ☐ Looking back, have there been any events or decisions in your industry that dramatically changed the landscape?
- ☐ Can you share a memorable experience where you saw someone apply your field's principles in an unexpected way?



TIP

By analyzing interview notes, chat transcripts, or feedback, AI tools can spot common themes, emotional moments, or powerful quotes you might miss. In minutes, it can help you turn everyday experiences into authentic stories that make your training more relatable and human.

Thinking of Your Entire Session as a Story

Why not think of your entire training session as a story, with the content unfolding like chapters? This approach helps you create a structure that keeps learners engaged and invested throughout. It transforms the experience from a series of disconnected points into a meaningful, cohesive journey. Figure 9-3 illustrates how to use your story arc to break your session into a clear beginning, middle, and end, guiding learners through a narrative that feels purposeful and connected.

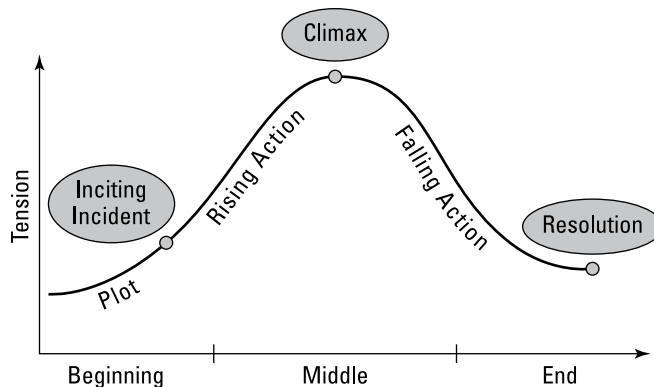


FIGURE 9-3:
Story arc with
a beginning,
middle, and end.

Setting the scene — The beginning

Just like in a great novel or movie, the opening should grab your learner's attention. You can start with a compelling story, a surprising fact, or a relatable anecdote — something that immediately sets the tone and gives your learners a reason to care about the training. This is where you introduce the *why* and *what* of your session: Why are we here? What challenges are we addressing?

For example, if you're training a group on leadership skills, consider sharing a story about a leader facing a major challenge, setting the stage for the journey your learners are about to embark on. Keep the details simple but impactful, ensuring the storyline resonates with your learners. You can begin with a relatable anecdote: *One of my clients, Ken, was dealing with your exact issue.* (This is your hook, a way to draw your learners in emotionally.)

Building the plot — The middle

You've sparked your learners' curiosity. Now, focus on their problems and how your solution provides the changes or answers they needed. Don't merely go from Point A to Point B. The long twists and turns as well as the shortcuts are what make the journey interesting, worthwhile, and relatable. Here's where the chapters (individual stories) come in. Each section of your training session becomes a chapter that advances the storyline.

The following suggestions can get you started:

- » **Use mini stories to illustrate key points:** These are your examples, case studies, or personal experiences.
- » **Introduce conflict and provide resolutions:** What obstacles will the learners face when they apply what they're learning? How can they overcome them?
- » **Employ interactivity:** Think of your learners as characters in the story. Get them involved through discussions, role-playing, or problem-solving activities. This makes the learning experience more immersive.

Consider a T&D session about conflict resolution. You can focus on identifying common sources of conflict with a story about a workplace misunderstanding. Then, you can explore tools and strategies to resolve workplace conflicts, tying them back to the earlier story.

Wrapping it up — The end

Every story, including your training session, needs a conclusion that wraps everything up. Highlight key takeaways, connect them to the call to action, and show learners the successful outcomes they can achieve. Include lessons from less favorable outcomes to spark reflection. Wrap up by revisiting the journey, emphasizing key points, and encouraging learners to apply what they've learned. You can end with a final story or invite learners to share their plans, giving them a sense of closure and empowering them to take action.



TIP

AI can help turn your entire training session into a story by weaving narrative elements throughout. It can:

- » **Create a storyline or theme** that connects all modules (like a journey, mission, or mystery).
- » **Develop characters or scenarios** learners follow as they progress.
- » **Generate dialogue, challenges, and outcomes** that adapt to learners' choices.
- » **Personalize content** so each learner's "story path" feels unique.
- » **Add visuals, voice-overs, and pacing cues** that keep the story engaging from start to finish.

In short, AI can transform a standard training outline into an interactive story that keeps learners curious and emotionally involved.

Tying everything together



SHERYL
SAYS

Here's a brief example of a story for a leadership training session. It ties together two scenarios, each with a different outcome. I wrote the basic stories and asked AI to make them more interesting.

One of my clients, Sasha, was a newly appointed team leader in a fast-paced marketing firm. Her team was struggling with communication and collaboration, which led to missed deadlines and low morale. At first, Sasha didn't know how to address the issue. She was new to leadership and unsure how to manage the diverse personalities on her team. But after learning some key leadership strategies, she began to open up communication channels, actively listen to her team, and foster a collaborative environment. She made it a point to hold regular team meetings, encourage feedback, and ensure everyone felt heard. As a result, her team not only improved their performance but started working together more cohesively, achieving their goals ahead of schedule.

However, not all stories end this way. Another client, Johann, was a manager at a software development company with a team facing similar communication challenges. Despite recognizing the signs of disengagement within his team, Johann struggled to find the right approach. He continued to rely on outdated methods, assuming that the team would eventually figure things out on their own. He didn't prioritize creating open communication channels or engaging with his team in a meaningful way. Johann believed that micromanagement was the key to improving results, which only added to his team's frustration.

As a result, his team continued to struggle with miscommunication, and the tension between team members grew. Productivity declined, morale dropped even

further, and deadlines were repeatedly missed. Looking back, Johann realized that if he had taken the time to implement the same leadership strategies Sasha used — such as fostering an open dialogue and encouraging collaboration — the outcome could have been different. He understood that leadership wasn't just about directing tasks but about actively supporting and guiding the team through challenges.

As we close today's session, think about Sasha's and Johann's stories. Where do you see yourself in their journey? What communication strategies can you apply to your own team to ensure a successful outcome?



REMEMBER

Learners don't identify with generic characters like *the customer*, *the manager*, or *a colleague*. Always give your characters names so they seem real, but change the name of any character you base on an actual person to protect their anonymity. Provide a vivid description of your main character and the setting so your audience can envision the scenario and place themselves in the situation.

Crafting a Storyboard

A storyboard is a visual map that shows the flow of your training session. It isn't just a tool; it's your partner in storytelling. It helps you craft a session that flows naturally, keeps learners engaged, and ensures that every chapter of your training story fits together seamlessly.

Here are some benefits of using a storyboard:

- » Keeps your story cohesive.
- » Helps you plan transitions.
- » Allows you to identify where visuals may be added.
- » Makes space for internal stories (chapters) and activities.
- » Lets you visualize the learner's journey.
- » Offers the flexibility to experiment and make changes.



REMEMBER

Creating a storyboard can be as simple as sketching out your ideas in two columns on a page: one for *tell* and one for *show*. Think of it like show-and-tell from childhood, but this time, you'll start with what you want to *tell* and then decide how to *show* it to bring your point to life.

Figure 9-4 provides an example to help you picture a storyboard. Imagine a group of Martians is landing on Earth, and your mission is to teach them how to make a

peanut butter and jelly sandwich. (Luckily, they speak English.) You can start with a short video to grab their attention (the beginning), and then tell the story of the PB&J sandwich while teaching them how to make one (the middle). Finally, you can wrap up by inviting them to try making their own sandwich (the end). Simple, fun, and structured.

How to Make a PB&J Sandwich
30-minute Presentation for Martians

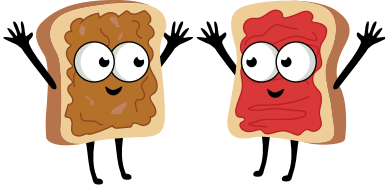

Tell	Show
	1-1/2 minute Video on YouTube 
<ul style="list-style-type: none">• Welcome and brief intro.• Please feel free to jump in with any questions as we go along.	
<p>Tell story of how PB&J started.</p> <p>Boast of National PB&J Day on April 2 for this all-American sandwich.</p>	<p>Peanuts and Pralines By Julia Davis Chandler</p> <p>WE must regard the peanut with respect, not derision, since Edward Atkinson estimates that soon the peanut crop will be of more value to the United States than the cotton crop. Peanut pastes and butters are used more and more.</p> <p>For variety, some day try making little sandwiches, or bread fingers, of three very thin layers of bread and two of filling, one of peanut paste, whatever brand you prefer, and currant or crab-apple jelly for the other. The combination is delicious, and, so far as I know, original.</p> <p>If one have a large family, it is well to buy peanuts at wholesale, by the bushel, and roast them as wanted. It is not difficult. Do not think the largest, in three sections, the best. Choose rather a full, plump, white peanut in two sections ; as pralines,—a general term for nuts cooked in sugar.</p> <p>A Creole dish for state occasions is bombe pralines and fruits.</p> <p>At a pretty dinner recently given in Philadelphia, burnt almonds were used in the centre cream, while the outside was an apricot ice, or sherbet, as some call it.</p> <p>The following is a recipe from a Creole family in Louisiana :—</p> <p>Bombe Pralines aux Fruits</p> <p>Sauté three ounces of blanched almonds in one-half ounce of fresh butter and one ounce of fine sugar. When a deep brown, pound quickly till smooth, and mix with rather less than a pint of whipped cream and freeze. Line a bombe mould about an inch thick with</p> 

FIGURE 9-4:
Storyboarding
in action.

<ul style="list-style-type: none"> • Mention that oil in natural peanut butter separates and must be mixed. • Clarify the difference between jelly, jam, and preserves. • Describe what jars look like as opposed to cans that you can't see through. • Explain how to open jars. (Twist cap counterclockwise.) 	
<ul style="list-style-type: none"> • Explain what a knife looks like and what it's intended to do. • Mention how to hold a knife so it's safe. <p>Story of Clyde who didn't hold his knife correctly and got cut badly.</p>	
<ul style="list-style-type: none"> • Explain that some breads come as whole loaves and aren't pre-sliced. • Show how to slice a whole loaf of bread that isn't pre-sliced. 	
<p>Closing story of how kids all over America trek to school with a paper bag (or lunch box) packed with a PB&J sandwich, an apple, and juice box.</p> <p>Note that the average child will eat 1,500 PB&J sandwiches before graduating from high school.</p>	
<p>Invite everyone to come up and make a PB&J sandwich.</p>	

FIGURE 9-4:
Continued



REMEMBER

AI isn't just smart technology — it's a storyteller/artist. It can create a detailed storyboard with scene-by-scene outlines, descriptions, dialogue, and visuals. Whether you're putting together a training video, an animated explainer, a podcast, or a short film, simply provide prompts on the concept, tone, and number of scenes, and AI will turn your ideas into a clear, engaging storyboard ready to bring your vision to life.

WRAPPING IT UP

We started this chapter in “Rome,” so it’s only fitting we end it in “Paris.” Earlier we talked about wrapping up training with a great story, so here’s mine to end this chapter. I hope it leaves you smiling, just as it did me.

Check out <https://www.youtube.com/watch?v=nnsSUqgkDwU>, *Parisian Love* (2009), a Google Chrome ad that masterfully blends storytelling, emotion, and technology. Through simple search queries, it follows a young man navigating love and life in Paris, letting viewers project their own experiences onto the narrative. Gentle music and universal themes — love, language, connection — make it deeply relatable. Minimalist yet powerful, it’s a timeless example of storytelling done right!

- » Recruiting AI to be your graphic artist
- » Painting a vivid picture for learners
- » Setting out procedures in a step-action table
- » Considering the visual details of your content

Chapter **10**

Revving Up Visuals with AI

In this turbocharged era buzzing with information that's instantly accessible with the tap of a finger or the sound of a voice, standing out is the name of the game. As a trainer and developer, you're not just sharing knowledge with your learners — you're the maestro of employee growth and skill building, leading a captivating training and development (T&D) experience. With AI as your sidekick, you can turn complex ideas into easy-to-digest and delightfully palatable lessons that elevate your sessions from ordinary to extraordinary.

Visuals are your secret weapon. They cut through the noise, spotlight what really matters, and speak a universal language of imagery and graphics that breaks down barriers and makes your message stick. And with AI by your side, your training won't just be dynamic — it will be unforgettable.

This chapter helps you see (and imagine) why packing your presentation with engaging visuals — not slides crammed with bullet points — is the key to transforming your training from blah to brilliant. Visuals can take many forms: photos that show real-world situations, charts that make data easier to grasp, infographics, physical objects, short videos that bring ideas to life, or simple icons that highlight key points. The goal is to make information clearer and more engaging so learners don't just read; they see and remember.

Letting AI Do the Heavy Lifting

You don't need to be a graphic designer to create great visuals — AI has you covered. It's already built into graphics tools, editing software, 3D modeling, and animation platforms. These AI-powered features can help you generate images, design layouts, or even animate scenes with just a few prompts, making your training prep faster, easier, and far more effective.

Knowing what tools are out there

AI can help brainstorm your content, design layouts, and recommend visuals. It can also tweak your message to match your learners' needs, fix grammar, and clean up formatting — saving you time and keeping things clear. AI even sharpens your slides by cutting out filler, simplifying language, and highlighting key points for better impact.

New AI tools are popping up all the time. Some quickly gain traction, while others disappear just as fast. Here's an alphabetic listing of a few popular tools that you might want to explore:

- » **Adobe Photoshop** (<https://www.adobe.com>)
- » **AutoDraw** (<https://www.autodraw.com/>)
- » **Canva** (<https://www.canva.com/>)
- » **DALL·E 3** (<https://openai.com/dall-e>)
- » **Deep Art Effects** (<https://www.deeparteffects.com/>)
- » **Designs.AI** (<https://designs.ai/en>)
- » **Khroma** (<https://www.khroma.co/>)



WARNING

As of this writing, AI-generated graphics from ChatGPT (via DALL·E 3) aren't copyright-protected, and OpenAI doesn't claim ownership, allowing for broad usage rights. To use third-party graphics, you must get proper licenses or written permission. Attribution alone isn't enough and may lead to legal issues. To ensure originality, customize outputs, verify licenses, and check for similar images online. Always review the AI tool's licensing agreement to confirm your usage rights.

Seeing is believing

Why spend hours designing visuals when AI can do it in seconds — and sometimes better? This section highlights a few examples of AI's versatility.

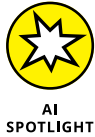


Figure 10-1 shows how AI comes to the rescue for preparing charts and tables. I prompted AI to prepare a two-column table listing popular charts and how they can best be applied. AI came up with the top eight.

Here's a two-column chart listing 8 popular types of charts and their common applications:

Chart Type	How It's Commonly Used
Bar Chart	Comparing quantities across different categories
Line Chart	Showing trends over time (e.g., sales growth, website traffic)
Pie Chart	Displaying proportions or percentages of a whole
Column Chart	Comparing data vertically across categories (like bar charts)
Scatter Plot	Showing relationships or correlations between two variables
Histogram	Visualizing the distribution of data over intervals
Area Chart	Demonstrating cumulative totals over time
Heat Map	Highlighting intensity or frequency across two dimensions

FIGURE 10-1:
Chart generated by AI listing eight commonly used types of charts.

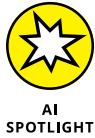


Figure 10-2 shows a cartoon version of an elephant in the room. You know, the big, obvious issue everyone is aware of but avoids talking about. (Sometimes you just need to lighten things up!)

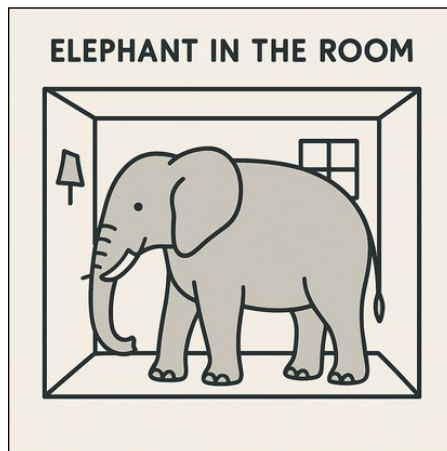
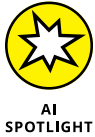


FIGURE 10-2:
AI-generated cartoon of an elephant in the room.



In Figure 10-3, using the parameters I gave AI in a prompt, it prepared a scatter chart showing before and after scores for a corporate training program.

FIGURE 10-3:
AI-generated
scatter chart
showing before
and after scores
for a corporate
training program.

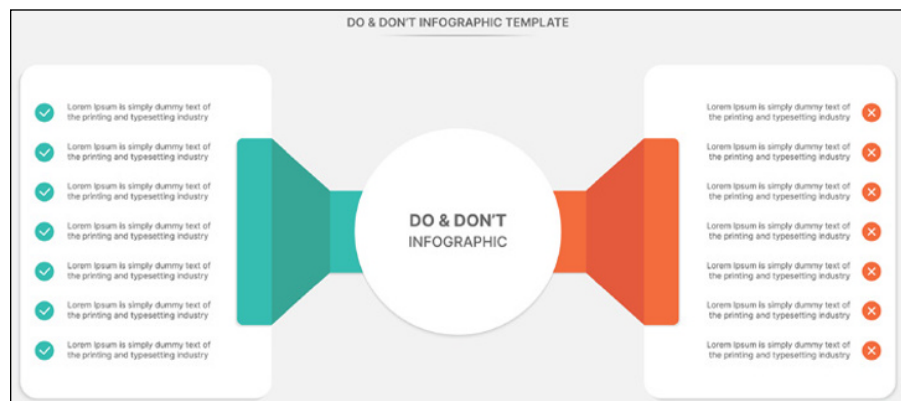


Graphic created with assistance from ChatGPT (OpenAI).

Giving Your Slides the Right Kind of Pop

AI can whip up slick graphics in seconds — but it does only what you ask. Ask it to cram 14 points on one slide, and that’s exactly what you’ll get. Sure, Figure 10-4 looks interesting and balanced at first glance, but it doesn’t help learners focus on the do’s and don’ts, so it lost its purpose.

FIGURE 10-4:
A slide like this
pops, but it’s
unreadable.



Visual Generation/Adobe Stock Photos

It's up to you to make sure your slides are clear, readable, and paint a picture learners can see in their minds. Here are some guidelines:

- » Use large, readable fonts: 24 point for headlines, 18 point for text.
- » Skip all caps — they're harder to read and feel like shouting.
- » Limit slides to 5–7 lines of text.
- » Use bullet points sparingly — less is more.
- » Dedicate each slide to a single idea, avoiding clutter or information overload.

Thoughtfully used, videos, animations, and voice-overs can transform your training by adding depth and energy to your visuals, creating a multisensory experience that appeals to diverse learning styles and keeps participants engaged. For example:

- » **Videos:** Bring learning to life with real-world context and expert insights, making abstract concepts tangible and memorable.
- » **Animations:** Simplify complex ideas with dynamic images, clarifying processes, data, and cause-and-effect relationships.
- » **Voice-overs:** Add personality and clarity, guiding learners with an engaging, conversational tone.

Knowing which slides you should never include

Every slide should add value to your session— whether it introduces new ideas, clarifies complex concepts, or drives a meaningful discussion. If a slide is merely a filler, cut it! Here are examples of some slides you should **not** include:

- » **Welcome:** Instead, engage learners with something thought-provoking, like a question, story, statistic, or scenario. Or consider saying, *Welcome. What's the biggest challenge you hope to solve today?*
- » **Agenda:** A quick verbal outline or a printed handout works better. Or you can verbally stress the highlights with a brief rundown: *We'll focus first on strategy, then dive into tools, and wrap up with a case study.*
- » **Questions:** Turn off the projector and ask directly if learners have questions.
- » **Definitions:** Some learners feel that a slide with a definition is patronizing. If you need to clarify a term, do it verbally: *When I say [term], I'm referring specifically to . . .*
- » **Thank-you:** Offer a verbal thank-you followed by a key takeaway, memorable quote related to the topic, call to action, or some other appropriate wrap-up.

Using colors thoughtfully

High-contrast color combinations — like dark text on a light background — make reading a breeze and keep the focus on your message. A splash of color here and there can highlight key points, break up sections, and guide your learners without overwhelming them. Stick to a consistent color palette to keep things looking sharp and professional.



REMEMBER

Don't forget accessibility. Not everyone sees color the same way, and some people are colorblind. High contrast helps, but you can go further by adding patterns, textures, or labels to charts and other visuals. Instead of just using red and green to show differences, add text or distinct patterns so everyone's in the loop. The goal is to make your content clear, engaging, and inclusive for all.

Scaling for size

Understanding the size of something can be tricky, especially when the scale isn't easy to imagine or explain. In Figure 10-5, you see the hand of a man holding a small microcontroller chip. Seeing it in his hand makes it easy to see just how small the device really is, rather than imagining it as something much larger.

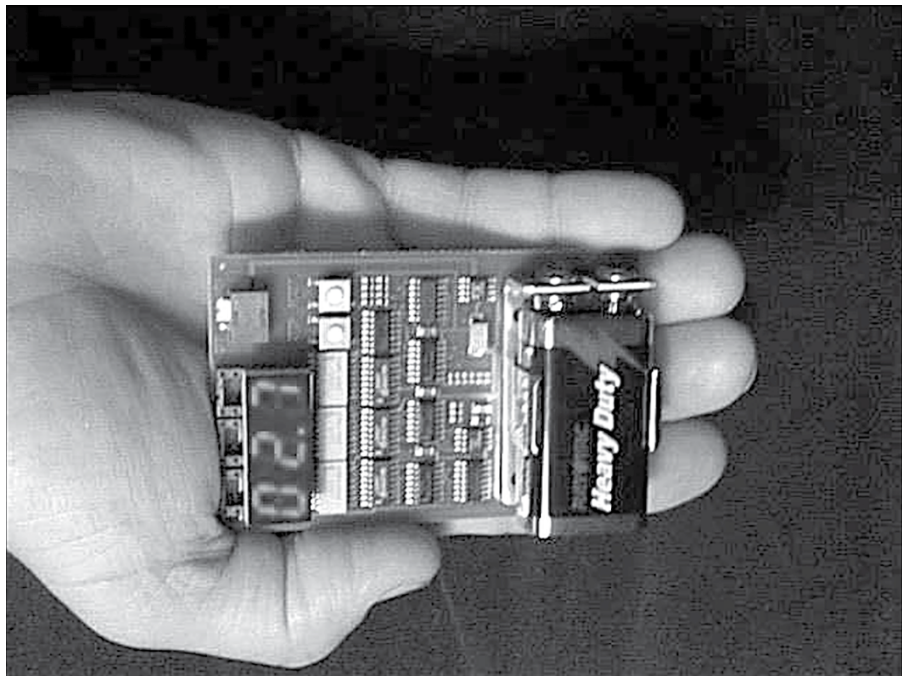


FIGURE 10-5:
Scaling the size of
a microcontroller
chip.

KEEPING AN EYE ON INCLUSION

Visuals that are culturally sensitive help every learner feel included. Visuals that seem “normal” to you can confuse or exclude learners from different cultural backgrounds. Here are some tips to keep in mind:

- **Images and visuals:** Choose images that reflect a variety of people and situations. Avoid using only Western office scenes or holiday imagery that not everyone celebrates. For example, when illustrating teamwork, show a diverse group of colleagues in a virtual meeting, a factory floor in India, or a retail team in Mexico.
- **Names and examples:** Rotate names and scenarios to include different cultural backgrounds. Instead of always using John and Mary in an American-style office, you could use Aisha and Omar in a marketing team in Dubai, Li Wei and Chen in a manufacturing plant in China, or Sofia and Carlos in a customer service department in Brazil. Vary the names and work settings (offices, factories, remote teams, or retail environments), so more participants can relate to the examples.
- **Colors and symbols:** Some colors and icons carry different meanings across cultures. Red can mean danger in one place and luck in another. Consider using neutral colors when possible, like blue or green arrows, gray icons, or universally understood symbols such as checkmarks or lightbulbs. However, if you need to include a specific color (like a company logo) make sure it's explained or balanced with other neutral visuals, so it doesn't confuse or distract learners.

Using the Step-Action Table



SHERYL
SAYS

I've been writing instructional materials for what feels like an eternity, and I've discovered that the step-action table is by far the easiest and most straightforward way to write clear instructions and procedures. Based on feedback from learners, it's the method they find most understandable and easiest to follow. Therefore, I present to you . . . the step-action table (I've included an example table showing the procedure for signing off on official records), along with the following tips:

- » Create a title for each process or procedure.
- » Divide the table into two columns (or more if needed). For example, you may need to include a “Responsibilities” column to track who's responsible for each action or a “Due Date” column to manage timelines.
- » Start each step with a verb, something the learner should do.

- » Use clear and understandable language appropriate for your learners.
- » Keep the language consistent. For example, don't call something a *manual*, and then refer to it as a *guide* or *handbook*.
- » Include in the "Action" column any notes, screenshots, results, graphics, if-then tables, or anything else that further clarifies the action.

Step	Action
1	Sign all official records in black or blue ink.
2	<p>Correct all mistakes with a single line through the mistake, initialed and dated with the correct date.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> You can't use correction fluid or correction tape. You can't backdate changes.
3	<p>Report all incidents of lost documentation to the documentation supervisor.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> For a lost controlled document, the document supervisor will make a note of the incident in the controlled distribution record and will issue a replacement document. For a lost quality record, a memo will be placed into the appropriate file.

Thinking of Visuals Beyond Typical Graphics

Think of visuals in the broadest sense — way beyond just images or slides. Anything learners see can help them understand and remember information. So yes everything counts! That includes white space, fonts, colors, paragraph and sentence length, bullet styles, headings, and even the way things are laid out. All of these little details shape how easy it is for learners to follow along and stay engaged. A well-designed page or slide doesn't just look nice — it works like good stage lighting in a play. It highlights what matters, keeps distractions in the shadows, and helps the audience stay focused on the story instead of getting lost in the scenery.

Including lots of white space

White space is a key visual ingredient. It includes all areas without either text or graphics. In other words, it's quiet space or blank space. Here's what white space does:

- » Makes the text inviting and approachable.
- » Provides a contrast and resting place for the learner's eyes.
- » Creates the impression that the text is easy to read.

Selecting fonts

Font choices go far beyond just picking serif or sans serif. Each typeface can create a different emotional tone and affect how your message is received. Serif fonts (with their small decorative strokes at the ends of letters) often feel traditional, formal, or trustworthy. Sans serif fonts, which have clean lines without those strokes, tend to feel modern, simple, and approachable. Beyond those two families, you'll also find fonts that look playful, technical, elegant, or handwritten, each shaping how learners experience your materials.

- » Serif fonts, like Times New Roman, Garamond, and Georgia, convey a sense of tradition, formality, authority, and professionalism. They're considered very readable on the printed page, which is why most books are set in serif fonts.
- » Sans serif fonts, such as Arial, Calibri, and Verdana, are associated with modernity, simplicity, and objectivity. They're a standard choice for electronic documents because they display well on screens.

Limiting paragraph and sentence length

Think of some of the documents you've read. When they have long, dense paragraphs, do you tend to skim or even skip over them (as I do)? You don't want learners to miss any of your critical information. These suggestions may help you keep them focused:

- » Limit paragraphs to about 8 lines of text.
- » Limit sentences to about 20–25 words.

Using bulleted and numbered lists

Bulleted and numbered lists are helpful when you want to organize information clearly and make it easier for your learners to scan. Use bulleted lists when the order of items doesn't matter. They're great for listing features, steps that can happen in any sequence, or options learners can choose from. Bullets are also useful when you want to break up dense text and highlight key points without implying a specific hierarchy or priority. When you want to stay neutral, you can alphabetize your bulleted items to show no preference or ranking.

Use numbered lists when the order or sequence of items is important — such as in instructions, procedures, or rankings. Numbered lists help readers follow a logical progression and understand which step comes first, next, and last. If skipping or changing the order could cause confusion, numbering is the way to go.

Including descriptive headings and subheads

Eye-catching headlines don't just belong in newsfeeds — they also grab learner's attention in training materials. Descriptive headings guide learners, making visual content easier to navigate, like road signs on a journey. Without them, content becomes harder to follow. Clear headings set expectations and provide structure. Make them descriptive rather than vague:

Vague: Overview

Descriptive: Overview: Understanding Project Timelines and Key Milestones



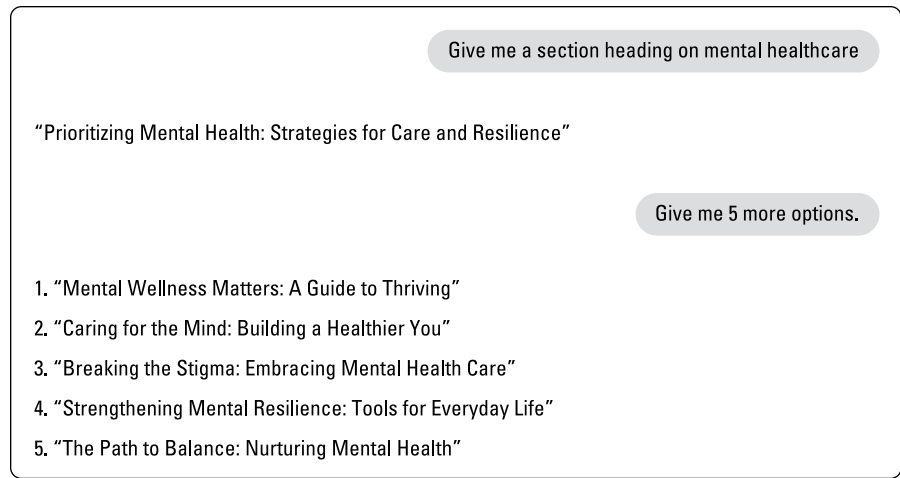
AI
SPOTLIGHT

AI is great for generating headings. Figure 10-6 shows how AI can help to brainstorm headings for T&D content. And if you want more, just ask.

Presenting weights and measures

In an increasingly interconnected world where business, education, and communication transcend borders, it's wise to present weights and measures in both the U.S. customary system (inches, feet, yards, miles) and the metric system (millimeters, centimeters, meters, kilometers). This ensures clarity, fosters inclusivity, and avoids confusion for international learners who may be familiar with only one measurement system.

FIGURE 10-6:
AI-generated list
of headings.



Here are some examples:

- » That trail is 5 miles (8 kilometers) long.
- » This jacket is 20 inches (50 centimeters) long.
- » The dosage is listed as 200 milligrams or 0.007 ounces.

By including measurements from both systems, you not only ensure understanding but also demonstrate sensitivity to cultural and practical differences. This small effort can make a big difference in building connections, trust, and engagement with worldwide learners.

Folding In Microvisuals

Microvisuals are small but powerful elements that guide learners' attention and reinforce meaning. These include icons, badges, or emojis to quickly signal concepts or actions; callout boxes or sidebars to highlight tips, key terms, or warnings; and progress bars or checklists to show advancement or completion. Even though they're tiny compared to full-size images or slides, microvisuals help learners process information faster, break up dense content, and make the learning experience more engaging and interactive.

Here's an example of using microvisuals in a workplace safety training session about operating machinery:

- » **Red light:** Next to a step that could be dangerous if done wrong, you place a red light icon to warn learners to stop and read carefully.
- » **Yellow light:** For steps that need attention but aren't risky, a yellow light reminds them to be cautious.
- » **Green light:** When a step is completed correctly, a green light confirms they can move on. This instantly signals risk and progress without adding extra words.

IN THIS CHAPTER

- » Adapting your tone and pacing to your learners
- » Easing into a formal or informal style based on your learners and the session
- » Keeping your message clear and simple
- » Knowing when to use the active or passive voice
- » Using humor selectively to lighten the mood
- » Finding your groove with AI

Chapter 11

Nailing the Right Tone Every Time

Have you ever been stuck in a training session that felt like the world's longest snoozefest? The kind where the trainer's voice droned on, the slides were a blur of bullets, and you'd rather be anywhere else doing just about anything else? We've all had that experience. Now, imagine this instead: A trainer walks in, full of energy, opens with a story that grabs your attention and a presence that makes you sit up and lean in. The room comes alive, your interest is piqued, and you can't wait for more.

So, what made the difference? Tone. It's the game changer that can take a session from *meh* to *mesmerizing*. Think of it like seasoning cooking: Just as the right amount of spice can turn an ordinary meal into something unforgettable, the right tone can turn an average training session into a dynamic, impactful experience that leaves everyone eager for more. In this chapter, you explore how to fine-tune your delivery, balance your enthusiasm with authenticity, and use your tone to

create an atmosphere where learning isn't just effective — it's exciting, engaging, and memorable. You also discover how AI can help you find the perfect vibe for your training and development (T&D) — whether it's formal, informal, or lighthearted — so that every training session keeps your learners engaged.

Reading the Pulse of the Room

Being a trainer can be like performing a juggling act. You must balance your observations of the group with flexibility and a bit of showmanship to ensure every learner feels they're participating in something truly special and personal. Throughout the session, it's important to scan your learners with the sharp eyes of a hawk.

- » Are learners nodding enthusiastically?
- » Are they scribbling notes with focus and energy?
- » Are small groups chatting?
- » Does anyone have a blank stare that needs your attention?
- » Are learners checking their phones instead of engaging?
- » Are you getting only minimal interaction from the group?



REMEMBER

If you see one person yawning, you can assume they're either bored or stayed up too late binge-watching the latest streaming series. If you notice several people yawning, that's on you! Your job is to read the pulse of the room by observing both verbal and nonverbal cues. If you sense that energy is dipping, be ready to tweak your materials and/or tone on the fly.



SHERYL
SAYS

FINE-TUNING MY RADAR

Growing up in New York City, I developed a communication style that rivals a subway train during rush hour: fast, energetic, and packed with momentum. So, when I landed my first training gig in the South, I was ready to wow them. I launched into my session. People were nodding and taking notes, and no one fell asleep. I figured I was acing it. Yet, during the morning break, I overheard someone say, "This is good stuff. But she talks so fast, I'm having a hard time keeping up."

That was an *aha!* moment. Not only was my speaking speed a challenge, but my tone, which was vibrant and brisk, may have added to the difficulty for some learners. In the South, where the pace is slower, my fast-talking wasn't hitting the mark. I should have noticed whether some of the learners looked puzzled or disengaged. Perhaps they had furrowed brows or glazed-over eyes, but I was so wrapped up in my presentation, I wasn't fine-tuning my radar.

This experience taught me an important lesson about paying attention to my learners and adapting my communication style as and when needed. Effective training requires you to balance your pacing and tone to ensure that your message is clear and accessible for everyone.

Powering the pause

Can you read this? Spacesbetweenwordsareasimportantasthewords. Of course you can't (or at least not easily); it looks like gobbledygook. What it says is, *Spaces between words are as important as the words*. Without spaces between written words, it's difficult, if not impossible, to read them. The same applies to the spoken word. Without pauses between spoken words, it's difficult to hear and understand them. Pauses are fertile ground that let words germinate and grow. Without them, language wouldn't be comprehensible. A simple pause is one of the most versatile tools in your speaking toolbox.

A moment of silence when you're speaking is just as important as the words themselves. Powering the pause adds the mojo to your message. Picture this: You're telling a funny story, and right before the punch line, you pause. Silence lingers, the learners lean in, and — BAM! — the payoff is a thousand times stronger. It's like the dramatic pause before the big reveal in a movie. Everyone's waiting for the *aha!* moment.

Pausing also gives you time to collect your thoughts and provides a mini recharge for your brain. It's somewhat like hitting the Refresh button. And here's the best part: It makes you appear confident and in control, even if you're not. So, next time you're doing a presentation, remember to pause, take a breath, and let the silence work its magic. The pause is like the punctuation mark of public speaking. It adds rhythm, emphasis, and a touch of dramatic flair.



TIP

The following AI tools can help manage your pacing by tracking how fast you speak and suggesting adjustments in real time. They can give timing cues to keep each section on schedule, offer feedback during practice sessions on where to pause or emphasize key points, and even adapt slide transitions to match your speaking speed. In short, these tools act like smart timekeepers, helping you stay natural, steady, and on point.

- » **Yoodli** (<https://yoodli.ai>): AI speech coach giving real-time, private feedback on pacing, filler words, and body language.
- » **Orai** (<https://orai.com>): An AI-powered app that helps improve public speaking by providing feedback on pacing, clarity, and filler words.
- » **Microsoft Speaker Coach** (<https://learn.microsoft.com/en-us/microsoftteams/meeting-speaker-coach>): A Teams feature that gives real-time, private feedback and post-meeting reports to enhance presentation and speaking skills.

Punctuating with your voice

Punctuating with your voice involves using tone, pitch, volume, and pauses to convey the structure and emotion of your speech. Here are a few tips for adding punctuation to the spoken word:

- » **Periods:** Lower your pitch slightly and pause briefly.
- » **Commas:** Use a short pause and a slight tone change.
- » **Question marks:** Raise your pitch at the end.
- » **Exclamation marks:** Increase your pitch to express enthusiasm.
- » **Colons:** Pause slightly and change your tone to introduce what follows.
- » **Semicolons:** Use a longer pause than a comma to connect related ideas.
- » **Dashes:** Make a dramatic pause and shift the tone to emphasize something or interrupt a statement.
- » **Ellipses:** Pause longer to suggest something left unsaid.
- » **Quotation marks:** Change your tone to indicate that you're quoting someone or making a specific reference.

By mastering these techniques, you can transform your speech patterns into a more dynamic and engaging presentation, in which your voice becomes the punctuation that accentuates your message.



REMEMBER

When you're writing or speaking, where you decide to place emphasis can completely change the meaning or tone of your message. Whether you highlight a word, pause for effect, or use some other strategic punctuation, the way you emphasize what you're conveying can grab your learner's attention, clarify a point, or even add humor to your delivery.

Here's a lighthearted case in point:

Statement	What the emphasis means
The fish is in the tank.	Because there's no emphasis, it's a neutral statement. The fish is exactly where you'd expect it to be.
The fish <i>IS</i> in the tank.	The fish is definitely in the tank as opposed to being someplace else, possibly contradicting a question or doubt.
The fish is <i>IN</i> the tank.	This clarifies the fish's location, perhaps in response to a question about whether it may be outside the tank or (dead) on the floor.
The fish is in <i>THE</i> tank.	This confirms which tank contains the fish (the one in question or another known tank as opposed to a random tank).
The <i>FISH</i> is in the tank.	This highlights which creature is in the tank — the fish, not a whale or any other animal.

Asking rhetorical questions

Rhetorical questions are statements disguised as questions meant to prompt reflection or emphasize a point. Their power lies in engaging your learners mentally and emotionally. Although you're not looking for an answer, you're sparking thought and deepening the connection. It's like planting a seed — learners mentally answer your rhetorical question while absorbing your point. The pause provided by a rhetorical question allows your message to resonate, especially when you're telling a story. Examples include:

- » Do you know how this can work for you?
- » How many of you have felt like the person in the story?
- » Have you ever felt overwhelmed at work?

Use rhetorical questions to highlight problems, emphasize points, or introduce (selective) humor. Try one in your next training session to spark engagement and leave a lasting impact.

Establishing the Right Vibe

When deciding on the formality of a training session, consider your learners, objectives, and context. (Check out Chapter 8.) A formal session typically involves structured content and a professional tone, while an informal session may foster

more relaxed and conversational interactions and a laid-back atmosphere. The key is to find the tone that fits both your learners and your authentic training style.



TIP

AI can help you strike that balance. Popular tools (like those mentioned in Chapter 2) can analyze your content to determine if the tone aligns with your objectives. Are you aiming for formal, inspiring, informative, or playful? AI can detect patterns in your language, flagging areas that may come across as flat or overly formal. It can suggest vibrant alternatives, helping you inject personality and energy where it matters most.



AI
SPOTLIGHT

In each of the three examples that follow, I prompted ChatGPT to create formal, informal, and lighthearted openings for a training session on leadership.

Formal

Good morning. I'm [name]. Our goal for this session is to explore and enhance the core skills and qualities that define effective leadership. Over the course of our time together, we will delve into various leadership strategies, engage in interactive exercises, and discuss real-world applications to help you lead with confidence and impact. I encourage you to actively participate, share your insights, and ask questions throughout the session. Your engagement is key to making this experience both valuable and impactful. Thank you for your commitment to personal and professional growth. Let's embark on this journey together and unlock our potential as leaders.

Informal

Thanks for joining us today for our Leadership Development workshop. I'm [name], and I'm excited to be here with you. We're going to dive into what makes a great leader, share some tips and tricks, and try out a few activities to boost our leadership skills. Feel free to jump in, ask questions, and share your own experiences — this is all about learning from each other. I'm really looking forward to working with you and having some great discussions. Let's get started and make this workshop one to remember!

Lighthearted

Thanks for joining us today for our Leadership Development workshop! I'm [name], and I'm thrilled to be here with all of you. We're going to explore what makes a great leader — spoiler alert, it's not just about having all the answers! We'll share some tips, tricks, and maybe even a few embarrassing stories along the way. We'll also dive into some activities to boost our skills, so don't be shy — jump in, ask

questions, and let's learn from each other. I'm really looking forward to some great conversations and, of course, having some fun along the way. Let's kick things off and unleash our inner leader.



REMEMBER

While AI tools can provide useful tone suggestions, it's your human intelligence that's critical to ensure the appropriateness for your specific learners and context.

Crafting formal training sessions

Formal training involves structured sessions designed to enhance skills and knowledge crucial for effective management and operations. This training helps employees and leaders perform their roles more efficiently and stay updated with industry standards and best practices. Here are a few examples:

- » Leadership development programs
- » Corporate compliance training
- » Sales and marketing training
- » Safety training
- » Certification programs



REMEMBER

Formal doesn't mean stuffy. To make formal training fun and engaging, incorporate interactive elements like group activities, simulations, and gamified learning modules that encourage active participation. Add real-world stories, anecdotes, case studies, and opportunities for hands-on practice (like role-playing) to make the content more relevant and enjoyable.

Going informal

Informal training sessions create less structured learning environments. They're typically more flexible and less rigid than formal training. Here are some examples of when informal training may be appropriate:

- » Team-building workshops
- » Lunch and learn opportunities
- » Knowledge-sharing sessions

Creating a balance

Choosing a tone isn't always cut-and-dried. Finding the right balance is key for keeping your learners engaged while you stay professional. When you start a session, you can kick things off with a relevant story or a formal introduction that outlines what you'll cover. This sets the stage.

As you dive into the main content, your slides can reflect a mix of professionalism and personality. Use formal language to present your key points but feel free to add personal anecdotes or relatable stories to keep things lively. Your slides should support this mix by including both polished, professional visuals and more informal, engaging elements like animated images or casual design touches. Perhaps you can work in a lighthearted or humorous slide.



REMEMBER

Encouraging learner interaction is another great way to blend a formal tone with an informal one. You can invite questions or start discussions in a relaxed manner, making your session feel more like a conversation than a lecture. Keep the interaction respectful and on track.

Finally, as you wrap up, summarize your main points formally and provide a clear call to action. But don't forget to end on a friendly note, thanking your learners and leaving them with a positive impression. This keeps the presentation professional while making you approachable. You can also end with an engaging slide, story, or anecdote that wraps things up. And AI can certainly lend a hand here!

Giving 'em a Little KISS

Did you know most adults in the United States read at about an 8th-grade level? Shocking, right? For perspective, *The New York Times* typically writes at a 10th- to 12th-grade level — challenging enough to make you feel smart but still digestible with your morning coffee. So, when you're presenting, simplifying your content isn't dumbing it down. It's making your message understandable to everyone — from the spreadsheet savants to the just-give-me-the-highlights crew. This aligns perfectly with the KISS principle: *Keep It Short and Simple* (or as others prefer, *Keep It Simple, Stupid*).

Focusing on simplicity

Your focus should always be on simplicity because there's no need to impress with fancy words. Here are a few examples:

- » Use *smell* instead of *olfactory impact*.
- » Say *smog filters* rather than *pollutant emissions under controlled strategies*.
- » Opt for *budget cut* over *fiscal resource optimization*.

Providing too much information is like asking your learners to drink from a fire hose. It's overwhelming and ineffective. Stick to the essentials, highlight what truly matters, and ensure your message is accessible to everyone. Keeping it simple isn't a compromise; it's the foundation of great communication.

AI can help you make your wording shorter and more to the point by analyzing your content to identify key information and eliminate repetition. It can suggest concise wording, simplify complex sentences, and focus on the core message. This streamlining ensures clarity and brevity, making communication more effective. Tools such as Grammarly (<https://www.grammarly.com/>) can provide recommendations for simplifying and tightening your writing. Here's an example of AI at work:



AI
SPOTLIGHT

Before

Due to the fact that the project was not completed on time, the team had to work additional hours over the weekend in order to meet the revised deadline that was set by upper management.

After

Because the project was late, the team worked overtime to meet the new deadline.

Using contractions

Years ago, contractions belonged only in labor and delivery rooms. Today, they're appropriate in many T&D situations. For informal settings, such as team workshops or casual training sessions, contractions can make communication more engaging and relatable (for instance, *You'll need to complete this module before moving on*). However, for formal training, formal reports, or external communications, it's best to avoid contractions to maintain a professional tone (for example, *We would appreciate it if you could submit the materials by the end of April*).



TIP

Avoid using contractions in electronic documents or during virtual training. They may be challenging to read on low-resolution screens or difficult to understand in a video training format.

Eliminating trite expressions

Cutting out tired expressions is like tidying a messy room; it instantly makes your message feel cleaner, sharper, and more intentional. Overused phrases like *at the end of the day*, *the ball is in your court*, or *think outside the box* are like old knickknacks that just add clutter. Swap them for clearer, fresher alternatives — “ultimately” instead of *at the end of the day*, “it’s up to you” instead of *the ball is in your court*, or “try a fresh approach” instead of *think outside the box*. By choosing language that feels natural and specific, your communication becomes more authentic, creative, and engaging.

Creating a Neutral, Gender-Sensitive Environment

Language isn’t static. It constantly evolves to reflect cultural shifts and changing norms. Just as terms like *doomscrolling* or *social distancing* didn’t exist before Covid-19, words around gender, race, and professional roles also adapt. For instance, *cameraman* has become *cinematographer*, *salesman* is now *sales representative*, and *chairman* has shifted to *chair*. These updates aren’t just semantic; they help create environments that feel welcoming and respectful to everyone.

Using the singular pronoun *they* instead of *his* or *her* is another example of this kind of neutrality. It simplifies language and ensures that everyone feels acknowledged, removing unnecessary gender specification. For example, saying, “Everyone should bring their laptop to the training session” avoids the clunky, gender-specific alternative, “Everyone should bring his or her laptop to the training session.” Just as tone influences how a conversation feels, the words we choose shape the atmosphere, helping make spaces inclusive and approachable.



TIP

AI tools can support these efforts by promoting various forms of neutrality. These tools can flag biased language and suggest more inclusive alternatives. They can analyze workplace data to uncover patterns of inequity, from pay gaps to promotion trends. AI-powered simulations and training programs can even help learners practice culturally sensitive and gender-neutral communication in realistic scenarios. Think of AI as a smart assistant guiding people toward fairness, equity, and respect, ensuring everyone feels seen, valued, and included.

Juggling Voices: Making Active and Passive Work for You

Voice is the grammatical term for whether the subject of a sentence performs the action or receives it. Understanding the difference between active voice and passive voice is important for clear and engaging communication. When you use the active voice, you focus on the person, place, or thing performing the action, making your statements direct and lively. Speaking in *the* passive voice, on the other hand, shifts the focus to the object or result of the action, which can be useful in formal situations or when you want to emphasize the result over the action or actor. Knowing when to use each voice helps ensure that your tone is clear and impactful. Here's the scoop on using each:

Bringing your session alive with the active voice

Using the active voice allows you to project a tone that's dynamic and interesting. It's like looking your learners in the eye and speaking with authority and accountability. When writing or speaking in the active voice, the subject (a person, place, or thing) is the doer. Here are some examples where the doer is underscored:

Person: Carlton designed the new employee training program.

Place: Boston has many leading universities.

Thing: The online course provides interactive exercises to improve coding skills.

AI tools can help by evaluating the context and purpose of your writing. They may highlight passive constructions and suggest changes to active voice, but the final decision is yours based on your intended tone and emphasis.



AI
SPOTLIGHT

Here's an example of original text in the passive voice and how AI followed the prompt to turn the text into the active voice:

Before

In this training session, key communication strategies will be introduced and discussed. Common workplace scenarios will be examined, and effective responses will be practiced through guided activities. Throughout the session, questions will be encouraged, and group participation will be supported. By the end, key takeaways will have been summarized and shared with all participants.

After

In this training session, we'll dive into some key communication strategies together. We'll look at real workplace situations and practice how to respond in clear, professional ways. Feel free to jump in with questions — we're here to learn from each other! By the end, we'll share some useful takeaways you can start using right away. Let's make it practical, interactive, and maybe even a little fun!

Being passive on purpose

The passive voice always contains a form of the verb *to be* in the past, present, or future tense (*was*, *were*, *is*, *are*, *will be*, and so on). In the passive construction, the object of the action becomes the subject of the sentence, shifting the focus away from the doer and onto the receiver. The passive voice is appropriate when your focus is on any of the following:

- » **Emphasizing the action or result.** In this case, the action or result itself is more important than who performed it. For example, *The new policy was implemented last week* focuses on the implementation of the policy rather than the person who implemented it.
- » **Avoiding blame.** When it's important to avoid assigning blame or responsibility, the passive voice can shift the focus away from the doer. For example, *Mistakes were made during the process* avoids pointing out who made the mistakes.
- » **Using a formal or objective tone.** In scientific or formal communications, the passive voice is typically used to emphasize the process or results. For example, *The experiment will be conducted according to the specified procedures* uses a clinical tone that highlights the method rather than who's performing the experiment.



SHERYL
SAYS

SOMEWHERE BETWEEN ROMANCE AND GRAMMAR

During my writing workshops, just as I'm about to dive into the lesson on the active and passive voice, I like to set the mood with a little visualization. I start with a grin and say, "Close your eyes and picture this":

You're vacationing on a tropical island with your special someone. The sun is setting in a blaze of orange and pink hues, and the waves are gently lapping against the

shore. You can smell the salt in the air and feel the warm sand beneath your feet. In your hands, you're holding glasses of chilled wine. You lean in, interlock arms, and sip from each other's glass. Then, that special someone leans closer and whispers in your ear, "I love you."

As I'm reading this, I glance around the room. Smiles bloom like wildflowers, and I hear contented "aahs." Some people even look a little wistful. "Nice, right?" I say. Then, I turn to the whiteboard and write the words *I love you*.

"Okay, open your eyes," I suggest. "How does that make you feel?" People shout out words like *warm*, *fuzzy*, and *loved*. Someone even says, "Like I'm starring in a Hallmark movie!" I smile and nod. "Great answers. Now, let's try something else." I turn back to the whiteboard and, with an exaggerated pause, write: *You are loved by me*.

I turn back to the group and ask, "And how does *that* make you feel?" There's a moment of silence. Then chuckles ripple through the room. Someone blurts out, "Like I'm getting dumped . . . politely." Another quips, "I'd start checking dating apps!" The room bursts into laughter.

When the giggles subside, I pause and say, "Okay, you've just experienced the difference between the active voice and the passive voice." I then explain, "In the active voice, the subject takes action: It's direct, strong, and emotionally engaging — like a heartfelt 'I love you.' But in the passive voice, the action happens *to* the subject: It's distant, formal, and sometimes, well, just plain awkward — like 'You are loved by me.'"

By this point, everyone's wide awake, and the lesson sticks. After all, who can forget that vision of a tropical island and the sunset . . . or the awkwardly passive breakup line?

Maintaining Consistency and Clarity

These tried-and-true guidelines help you keep your content sharp, focused, and consistent from start to finish:

- » **Be consistent with your wording.** For example, if you talk about a *user manual*, don't later call it a *reference manual*, *guide*, or *document*. Your learners won't know if you're referring to the same publication or to a different one.
- » **Don't replace technical terms with synonyms.** It's better to repeat a word than to compromise the integrity of what you say. In the following example, computer *networks* has been changed to computer *systems*. Although system is a synonym for network, the meaning is different in the context of the sentence.

- **Specific:** The networking group was learning all they could about computer *networks*.
- **Compromised integrity:** The networking group was learning all they could about computer *systems*.

» **Avoid ambiguity.** For example, don't use words like *should* or *may* when options don't exist.

- **Specific:** Don't smoke when operating this equipment. (That's definite.)
- **Not specific:** You shouldn't smoke when operating this equipment. (There's a hint of "maybe.")

» **Be precise when using location words such as top, bottom, left, or right.** Locations are subjective, depending on where someone is positioned. In the examples that follow, the person may be looking over the computer from behind, so the switch would be on their left.

- **Specific:** As you face the front of the computer, the master switch is on the right.
- **Not specific:** The master switch is on the right.

» **Use clockwise and counterclockwise to describe turns.** (Here's a little hint: It's a good idea to use symbols in technical writing because they're easy to recognize.)

- **Specific:** Rotate the dial 45° clockwise to create a seal.
- **Not specific:** Rotate the dial 45° to the right to create a seal.

By continuously analyzing your wording for deviations, AI helps you create polished, uniform content that aligns with your intended purpose and your audience's expectations. It looks for consistent style and tone, terminology and vocabulary, formatting and structure, as well as grammar and syntax.

THIRD TIME'S A CHARM

Three of anything makes messages and ideas resonate with people. Why? The human brain is wired to recognize patterns, and three is the smallest number that feels complete and satisfying. It's simple enough to stick in a person's memory but varied enough to keep things interesting. Think about how often the number three pops up:

- **Entertainment:** The Three Stooges. The Three Musketeers. Three Dog Night.
- **Stories and fables:** The Three Little Pigs. The Three Billy Goats Gruff. Three Little Kittens.

- **Slogans and speeches:** Life, Liberty, and the Pursuit of Happiness. Snap, Crackle, Pop. Stop, look, and listen.
- **Mythology and religion:** The Holy Trinity. The Three Fates. The Three Jewels in Buddhism.
- **Science and nature:** Three primary colors. Three states of matter. Newton's three laws of motion.

The magic of three is that it's not too much and not too little — it's just right (as Goldilocks discovered). It provides enough variety to hold someone's attention and enough repetition to make an idea stick. Whether you're using humor, making a point, or teaching a concept, the power of three helps your message land every time.

Adding a (Measured) Dose of Thoughtful Humor

Humor, when used thoughtfully and properly (emphasis on *thoughtfully* and *properly*), can be a powerful tool to engage learners, reduce stress, and improve retention. However, if you misuse humor, it can backfire. Instead of lightening the mood, you may make things awkward, causing your learners to tune out or worse.

The following story, shared by one of my colleagues (I've called him Marty, in order to protect the guilty), is an example of *worse*.

Marty, a seasoned training consultant, had built a reputation for engaging, lively sessions that encouraged participants to connect deeply with the content. In one training session, he decided to share a personal anecdote based on his ethnic background, believing his real-life experience would add a layer of authenticity and relatability to the topic. Marty felt confident that his humorous story would resonate with his audience and provide a lighthearted yet meaningful connection to the material. He envisioned his story breaking down barriers, creating a sense of camaraderie, and fostering a warm, inclusive environment in which participants would feel comfortable and engaged.

However, two attendees from the same ethnic background as Marty were uncomfortable with his story. While he intended to share his cultural experience and humor in a positive light, they felt that his attempt to connect crossed a line. They perceived his humor as an oversimplification and misrepresentation of their shared heritage, and his assumptions about how it would land felt insensitive rather than inclusive. What Marty saw as a way to connect and bond, these attendees viewed as an unwelcome stereotype that undermined the complexity of their identity. Their discomfort led to a formal complaint, which was taken seriously by the company.

The review process was thorough, and while the intent behind Marty's story wasn't malicious, the impact on the affected individuals was undeniable. In the end, the company decided to bar Marty from future training sessions, citing the need for cultural sensitivity and the importance of ensuring that all participants feel respected and understood.

Marty's well-intentioned attempt to make his training more relatable had unintended consequences, proving that humorous anecdotes and personal stories, which can be effective tools for connection, must always be used with care and consideration for diverse perspectives.



WARNING

This incident serves as a powerful reminder that even the most well-intentioned humor can miss the mark. What one person finds humorous or relatable, another may find alienating or inappropriate. It underscores the importance of being aware of the diverse perspectives in a roomful of people and highlights the need for sensitivity and inclusivity in all training environments.

Using humor appropriately

You don't have to be a comedian to add humor to your sessions — no stand-up routine required! A little well-thought-out laughter can break the ice, boost engagement, and make your sessions memorable. Here's how to sprinkle in humor without trying too hard:

- » **Know your learners.** Understand whether they will be open to jokes and funny stories. This is where the T&D Kick-Start Brief in Chapter 8 is invaluable.
- » **Use relevant humor.** Incorporate humor or anecdotes that relate to the material. For example, if you're leading a teamwork training session, you can share a funny story about a group project gone awry.
- » **Keep it light.** Avoid humor that may be offensive or divisive. Stick to light-hearted jokes that are inclusive and noncontroversial.
- » **Include interactive humor.** Engage the learners with humorous activities or icebreakers. For example, you can have a funniest email subject line contest related to your training topic.
- » **Use visual aids.** Add funny images, memes, or cartoons to your slides or materials. Visual humor can make information more memorable. (Whenever you use someone else's words, images, or ideas, make sure you have permission or give proper credit.)
- » **Tell a personal story.** Share humorous stories or anecdotes from your life related to your topic. Personal stories often resonate with learners and make the material more engaging. (But again, be careful not to offend.)

ANT-ROPOLOGY 101

The Lives of a Cell: Notes of a Biology Watcher is a collection of essays by Lewis Thomas, first published in 1974. Thomas was a physician, researcher, and essayist, and this book reflects his deep curiosity about the natural world, blending science with philosophical reflections on life. And he incorporates humor. Here's a wonderful example of Thomas using humor appropriately in his writing, showing how even something scientific can have humor:

Ants are so much like human beings as to be an embarrassment. They farm fungi, raise aphids as livestock, launch armies into wars, use chemical sprays to alarm and confuse enemies, capture slaves. The families of weaver ants engage in child labor, holding their larvae like shuttles to spin out the thread that sews the leaves together for their fungus gardens. They exchange information ceaselessly. They do everything but watch television.

Getting help from AI

AI is a great tool for injecting humor into a session, adding a layer of wit that can engage the learners and make your content more memorable. I asked ChatGPT to create two different versions of the following wrap-up, allowing me to experiment with tone and timing. By leveraging AI's ability to be humorous, I was able to craft a tailored experience that felt both fresh and authentic, proving that AI isn't just for technical tasks, but can also be a creative asset in communication.



AI
SPOTLIGHT

Here's what ChatGPT came up with:

Formal wrap-up

In conclusion, the integration of our solution will significantly enhance your operational efficiency, reduce overhead costs, and improve productivity metrics. We have provided a comprehensive analysis and addressed potential implementation challenges to ensure a seamless transition. We believe that this solution aligns with your business objectives and will deliver substantial long-term benefits.

Humorous wrap-up

So, to wrap things up: If you're looking for a solution that makes your operations run like a well-oiled machine, slashes those pesky overhead costs, and boosts productivity to superhero levels, we've got you covered. We've tackled every potential hiccup, so you won't have to deal with any more headaches. Think of us as your business's secret weapon for success — no cape required. Ready to start your journey to the efficiency hall of fame?

Knowing When Jargon Is Cool

Jargon is specialized shop talk that's unique to people in an industry. Technical jargon is a hallmark of good training materials when learners have vast knowledge of the subject and the terminology. In these cases, it makes no sense to water down the technical language. Doing so may damage the integrity of your content and insult your learners.



REMEMBER

Be certain, however, that your learners know the lingo. Here's an example: I was on a flight waiting to take off when the pilot announced that our departure would be delayed because of a problem with one of the lavatories. About 20 minutes later, he announced that all the trucks that could fix the problem (a pump out, I assumed) were busy. So, he said, we'd take off but passengers shouldn't use the *aft lav on the port*. Several people shrugged their shoulders, wrinkled their brows, and looked flustered. If you aren't an aviator or sailor and didn't read *Moby Dick*, perhaps you wouldn't know that *aft* means "forward" and *port* means "left."

This is where the T&D Kick-Start Brief in Chapter 8 comes in handy in getting to know your learners. When your learners are outside the industry, avoid jargon or explain it. For example, CI/CD is a common concept in tech and software development circles, but it may not be as well-known outside these fields. So, on first mention you can say: "Continuous Integration/Continuous Deployment (usually shortened to CI/CD)." Then, you can use the acronym throughout your presentation, like this:

Our development team has streamlined our workflow by implementing CI/CD, allowing us to integrate and deploy new features more efficiently and with fewer errors.



REMEMBER

Every workplace has its own buzzwords and insider terms that can confuse learners, especially newcomers. AI tools can spot unclear or overly technical language and suggest simpler alternatives, adapting content for different experience levels. By flagging jargon and offering plain-language rewrites, AI helps make training fairer, clearer, and more engaging for everyone.



TIP

Avoid putting the definition of a word or phrase on a slide. It can come across as if you're questioning your learner's intelligence, and no one likes to feel talked down to. Instead, make the term come alive with a short example, a quick story, or a visual that shows what it means in action. Or simply say, *When I use the term {XX}, I'm referring to . . .*

4

Leveraging AI for Effective Training

IN THIS PART . . .

Build meaningful connections through virtual instructor-led training.

Design game-based learning experiences that engage and motivate.

Create podcasts that inform, inspire, and stick with learners.

Produce informative training videos that capture learners' attention.

- » Putting people front and center
- » Getting a handle on the technology
- » Jump-starting everyone's involvement beforehand
- » Using proper etiquette
- » Short-circuiting potential problems

Chapter **12**

Building Connections with Virtual Instructor-Led Training

It's a bright Monday morning, and the team at A-Z Solutions Company is gearing up for a virtual instructor-led training (VILT) session on the new software. As the clock strikes 9:00 a.m., the team logs in. On the screen, Farhana, the ever-enthusiastic manager, greets everyone with her usual pep: *Good morning, team. Let's make this a productive and interactive session!*

Just then, Whiskers, her large, fluffy cat, casually saunters across the desk, knocking over her coffee mug. Coffee splashes onto the keyboard, and Farhana's smile fades as she frantically tries to wipe up the mess. *Oh no, sorry about that!* she says, while Whiskers, oblivious to the commotion he caused, sits down right on the keyboard . . . These are the little hiccups that may add a touch of chaos and/or camaraderie to VILT.

Putting People at the Heart of Virtual Learning



When Covid first crashed the party, throwing everyone into a whirlwind of anxiety over how to continue working amid lockdowns and quarantines, my clients turned to me with a question: *Can we keep our training sessions going — virtually?*

Hmm, I thought. I've always thrived on the energy of in-person training sessions, so I was suddenly caught in a quandary. How could I make personalized connections on a screen? But instead of shying away from the challenge, I dove right in, embracing the opportunity to innovate. I realized that facilitating a VILT session is quite similar to facilitating an in-person session. It's all about the people.

I started to think of VILT like a stage production. The video conferencing platform is the set: it provides the connection, the viewing, and the sound system that make the experience possible. But it's the people who bring the performance to life. The facilitator guides the flow and keeps everyone engaged. Learners are the cast, each contributing their own perspectives, stories, and energy. Chats, polls, and breakout rooms are like the props and side scenes that keep the story moving to add variety. And the real magic happens in those spontaneous moments — a shared laugh, an “aha” insight, or an idea sparked by someone's comment.

When everyone plays their part, VILT becomes more than a virtual learning session — it turns into a live, collaborative experience that leaves learners inspired and ready to take action long after the final curtain falls. Because in the end, the video conferencing platform and AI (although critical) are just the tools that make the show possible, it's the people who give it heart, meaning, and momentum.

Partnering with a producer



Think of your producer as your tech guru who can handle all the behind-the-scenes stuff. They deal with the technology by making sure the audio and video are clear, managing chat questions, launching polls, admitting late arrivals, or sharing links and files at just the right time. In short, your producer is your co-pilot, keeping everything on track so you can stay focused on delivering a great learning experience.



I'll never forget when I was facilitating a VILT to a large group of high-level executives. My slides froze right in the middle of a key point. But before I could even panic, my producer had already pulled them up on her end and kept the session moving without missing a beat. That's when I knew having a great producer isn't just helpful — it's essential.

Choosing the right background

Choosing the right background sets the tone for your training, balancing professionalism and personality. For formal sessions, stick to a clean, neutral background, like a plain wall or tidy bookshelves. In casual settings, feel free to express yourself with fun backgrounds, but make sure they're appropriate for your learners. If your sessions involve international learners, opt for universally acceptable backgrounds (like a shelf of houseplants or a simple branded backdrop with your company logo) to maintain cultural sensitivity.



WARNING

While virtual backgrounds (such as stock images or videos from Microsoft and other platforms) can be convenient, use them carefully. Distorted images can make you flicker, blur, or even vanish, and sometimes an arm disappears mid-gesture! It's funny for a second but distracting in a VILT setting. If that happens, switch to a simpler image or a natural background.

Keeping the momentum going

Much like with in-person sessions, you need strategies that not only keep the momentum going but also make training truly engaging and special. Here's my go-to formula — tried, tested, and a total game-changer every time:

- » Opening with a 2- to 3-minute activity (even before introducing myself). It could be a poll, show-and-tell object, or anything relevant to the session.
- » Asking each one to briefly introduce themselves and share what they hope to learn — their main takeaway. (I'd jot down their answers and revisit them at the end.)
- » Introducing myself (very briefly).
- » Setting the stage for an interactive session by saying, *As we go through this session, please add your own insights. Ask questions. Share your stories. You have as much to learn from each other as you have to learn from me, so please participate.*
- » Showing the same (very limited number of) slides I used during in-person sessions.
- » Sharing the same stories and anecdotes I tell at in-person sessions.
- » Dividing learners into small groups for activities in electronic breakout rooms.
- » Engaging them through workbooks I sent in advance.
- » Ending by recapping some of the key messages and asking each participant if they got their takeaway.

Reducing screen fatigue

Screen fatigue is that drained, heavy-eyed feeling that comes from staring at a screen too long. In a virtual session, it can sneak up on even the most engaged learners with too many visuals, limited movement, and the constant awareness of being “on camera.”

Give learners permission to turn their cameras off when they need a break. This helps reduce screen fatigue, shows respect for their comfort, and lets them focus on learning instead of feeling like they’re on display. You can keep the energy up in other ways (through chats, polls, and discussions) so everyone stays involved without the extra pressure. Mix up the rhythm, too. Add short stretch breaks or pause for reflection instead of filling every moment with slides. Those little resets go a long way in helping learners stay alert, comfortable, and genuinely connected.



TIP

A good rule of thumb is to keep a single VILT session to 60–90 minutes. After 60 minutes, attention naturally starts to drop, and by 90 minutes, even the most engaging session can feel long unless it includes active participation such as polls, discussions, or breakout rooms. Think of it like a good movie — long enough to get absorbed in the story but not so long that you start checking the time. For lengthy topics, it’s better to break the content into several sessions or include a 5- to 10-minute break every hour. In general, 60–75 minutes is ideal for focused learning, and sessions should rarely exceed 90 minutes without a real break.

Blending Technology with Good Vibes

To facilitate live group teaching and discussions, you’ll need a communications platform such as Zoom (<https://www.zoom.com/>), Google Meet (<https://meet.google.com/>), or Microsoft Teams (<https://teams.live.com/free/>). These platforms offer essential features like videoconferencing and audioconferencing, screen sharing, live chat, breakout rooms, recording capabilities, and more.



TIP

AI enhances the VILT experience with real-time transcription, automated summaries, personalized assistance, and smart scheduling. With these tools, you can own the virtual room, ensuring smooth communication and increased productivity. The following list highlights platforms and independent AI tools that have notable features for improved communication and productivity:

» **Background noise cancellation:** AI-driven audio solutions like Krisp (<https://krisp.ai/>) or Zoom’s built-in noise suppression filter out background noise, enhancing audio clarity during training.

- » **Content recommendations:** AI systems can suggest relevant documents or resources during discussions, ensuring participants have access to pertinent information without interrupting the flow.
- » **Engagement analytics:** Tools like Webex (<https://www.webex.com/>) can track participant engagement levels, providing insights into how to enhance interaction and participation during training.
- » **Intelligent scheduling:** Microsoft Outlook's scheduling assistant and similar tools can find optimal meeting times based on participants' calendars and time zones.
- » **Real-time transcription and translation:** Tools and features like Otter.ai (<https://otter.ai/>) and Google Meet's live captions provide real-time transcription and can translate speech into different languages, making training more accessible.
- » **Security enhancements:** AI can monitor for unusual activity during VILT sessions, identifying potential security threats and preventing unauthorized access to sensitive discussions.
- » **Virtual backgrounds:** Applications like Zoom and Microsoft Teams allow users to select or generate virtual backgrounds, providing a professional look without needing a dedicated space.



WARNING

Captions are super helpful, but computers don't always have the sharpest hearing and can sometimes be embarrassing! This one says it all: I'm a member of the patient advocate committee for my healthcare group, and I join meetings remotely. Because the audio sometimes sounds like it's coming through a tin can, several participants rely on captions. One day, a well-meaning doctor passionately stated, "We have to make sure our patients stay on track." But the caption displayed a different version of those words: *We have to make sure our patients stay on crack*. It was a reminder that technology isn't perfect, and sometimes it can jump way off track or worse. If you include captions in your VILT sessions, make sure they reflect your words!



REMEMBER

Having the right equipment can make a significant difference. Table 12-1 lists some of the essential items to consider.



REMEMBER

Before your training session, test your equipment to check your audio and video functionality. Join the session 15-20 minutes early so you can address any last-minute technical issues and greet early arrivals.

TABLE 12-1 **Useful Technology for Video Training**

Equipment	Types to Consider
Camera	<p>Webcam: Look for high-definition (1080p or better) webcams, such as the Logitech C920 or Razer Kiyo.</p> <p>PTZ camera: For larger training sessions, consider a pan-tilt-zoom camera for better focus and coverage.</p>
Microphone	<p>USB microphone: Blue Yeti and the Audio-Technica AT2020 are popular desktop models that provide clear audio.</p> <p>Lavalier mic: A wearable microphone is great for mobility; consider options from Rode or Saramonic.</p>
Headset	<p>Noise-canceling headset: A good quality headset can help reduce background noise. The Jabra Evolve series is known for its noise-canceling features.</p> <p>Bluetooth headset: The Sennheiser Presence series offers high-definition audio and a lightweight design, ideal for professionals on the go.</p>
Speakers	<p>USB speakers: Consider brands like Bose or JBL for clear audio.</p> <p>Speakerphone: Devices like the Logitech P710e or Jabra Speak series are designed for conference calls.</p>
Lighting	<p>Softbox lights: This type of lighting helps create a professional, well-lit environment. Consider lights with adjustable brightness options.</p> <p>Ring lights: Ideal for personal use, ring lights are portable and easy to set-up.</p>
Connectivity	<p>High-speed internet: Ensure you have a reliable connection; wired Ethernet is preferred over Wi-Fi for stability.</p> <p>Ethernet cables: Keep spare cables handy for a wired connection in case Wi-Fi gets spotty.</p>

Engaging Learners Before the Event

To get everyone excited about the upcoming training session, send out friendly invitations that highlight what they'll gain from attending. Share the agenda, your bio, and maybe a few fun activities to get them thinking about the topic. It's all about creating a warm, inviting atmosphere that makes everyone eager to join in.



TIP

Get AI involved early to help you energize your learners before the session even begins. You can use it to draft engaging email invitations, come up with creative polls or icebreaker questions, or build short pre-session quizzes that spark curiosity and get people thinking. A little AI prep goes a long way in setting the tone for an active, connected learning experience.

Sending invitations

Send a personalized invitation to each learner welcoming them to the event. Include a registration form to complete and return. To keep the excitement building, mention that you'll be sending two email reminders before the big day. And just before you kick things off, send a final reminder.



TIP

If the event is in the morning, send the final reminder and log-in details the day before. For afternoon sessions, send out the reminder and instructions the morning of the training.

Consider including a unique teaser in each reminder to spark learners' curiosity. For example, for my grant proposal writing virtual training, I prep everyone with this teaser: *Crack the grant proposal writing code! Turn maybes into YESES! Join us and secure your funding success!* (Check out Chapter 20 to learn where funding opportunities are.)

Providing prework

Sending your learners an advance package of prework creates interest before the session starts, gets them to a certain level of readiness, and helps you establish a connection. The prework should be engaging, relevant, and set the stage for interaction. Here are a few ideas, depending on your topic:

- » **Short video or article:** Send a quick (2–5 minute) explainer video or a short article related to the session's topic. Ask them to come prepared with one key takeaway or one question they want answered.
- » **Thought-provoking question:** Pose a question to get them thinking, and have them post answers in a shared document, discussion board, or even a poll. (For example, *What's one challenge you face with this topic? What's the biggest misconception about the topic?*)
- » **Fun quiz or self-assessment:** Create a quick self-assessment to gauge their baseline knowledge or opinions about the topic. Keep it light and engaging!
- » **Real-life scenario:** Give them a short scenario related to the session and ask, *What would you do?* Discuss their responses during the session.
- » **Digital icebreaker:** Ask them to share a GIF, meme, or one-word response related to the topic in a chat thread or discussion board. This builds engagement before the session even starts.



TIP

AI can make prep time a lot smoother. It can help you analyze participant data to tailor content, generate outlines or slide drafts, summarize background materials, and even suggest engaging discussion questions. (Make sure to take a peek at Chapter 8 so you get to know your learners . . . a key ingredient to success!)

Keeping Everyone Engaged

People aren't wired to sit in front of their computers staring at a screen. They're wired to use their minds and fingers. Rather than having them use their minds and fingers to multitask (checking email and texts on their phones and so on), keep them engaged. This is key in any training, but it can be particularly tricky in a VILT setting where people can mute their audio and/or turn off their camera.

The smaller the group, the easier it is to engage them individually, but all is not lost with larger groups. I've found that incorporating interactive elements helps tremendously. Here are some strategies:

- » **Call on learners by name.** This keeps them alert and focused because they won't know when they'll be called on.
- » **Share stories.** Personal stories make your content relatable and encourage participation, creating a supportive, community-driven atmosphere. (Chapter 9 shares how AI can help to prepare engaging stories.)
- » **Use breakout rooms.** Small group discussions foster collaboration and deeper conversations, with each group sharing insights when everyone reconvenes.
- » **Send workbooks or worksheets.** These provide structure and hands-on practice, reinforcing learning and boosting retention.

BEFORE THE CURTAIN RISES: MAKING THE MOST OF THE ARRIVAL WINDOW

The 10–15 minutes before your session officially begins can feel like sitting in a doctor's waiting room (minus the outdated magazines and elevator music). Rather than squander this time, think of it as the arrival window — a warm-up period where learners trickle in and the energy starts to build. Give these suggestions a whirl:

- **Greet everyone by name as they enter.** *Hey, Jamal. Great to see you!* Something this simple goes a long way towards setting a welcoming tone.
- **Pose a light question.** *What's fueling you today — coffee, tea, or sheer determination? Or What do you hope to learn in today's session?* This encourages the early birds to drop it in the chat or unmute and share if the group is small. This little exercise gets voices (and fingers) moving and helps them feel connected right from the start.
- **Play background music.** Something upbeat (but not distracting) keeps this time from feeling like dead air.
- **Offer a sneak peek.** Share a fun fact or teaser from the session to build curiosity.

Think of it as your pre-show buzz. You haven't started the session yet, but you're already setting the mood for a great one.

Practicing Proper Etiquette

By embracing mindful communication and respectful interaction, you'll not only enhance your own learning but also elevate the collective energy of the group. A simple greeting like good morning, good day, or good evening wherever you are sets a warm and inclusive tone, especially when you have global participants. It shows awareness and respect for the fact that people are joining from varied time zones and makes everyone feel acknowledged.

Preparing before the session

Before you go live, here are some ways in which you can set yourself up for success:

- » **Choose a distraction-free area:** Keep your furry friends and little ones at bay. Steer clear (when possible) of noisy traffic or construction sounds.
- » **Connect early:** Join the session 15–20 minutes early to resolve any technical issues and set up your environment properly.
- » **Check your technology.** Ensure your camera, microphone, and internet connection are functioning well.
- » **Organize your space.** Clear your background of clutter and distractions. A clean, professional-looking space enhances focus.
- » **Dress professionally.** Wear appropriate clothing (at least from the waist up — see Figure 12-1) as you would for an in-person training session, including footwear if needed.

FIGURE 12-1:
Unless you
stand up, nobody
will see those
funky pj's and
polka-dot socks.



Maridav/Adobe Stock Photos

During the session

Once your session is underway, it's time to focus on making it engaging and memorable. What you do during this time can really influence how well your learners absorb and retain the material. Keeping their attention, encouraging interaction, and staying flexible are key.

- » Ask participants to keep their mics muted when they're not speaking to help keep background noise to a minimum.
- » Make eye contact by looking into the camera as you speak; it creates a sense of connection, even through a screen.
- » Remind everyone not to interrupt and let others finish speaking. They can use a hand raise or another visual cue can help manage the flow without interrupting.

Communicating and interacting

Leading a VILT works best when it's easy for everyone to follow along and participate. Here are some tips to keep things running smoothly:

- » Speak clearly and slowly. Enunciate and be mindful of any slight audio delays.
- » Keep side conversations to a minimum. If discussions drift off-topic, gently guide everyone back. You may simply say, *Let's bring the focus back to the topic so everyone can follow along.*

- » Pause for questions and comments. Make sure everyone has a chance to contribute.

Technical considerations

During VILT, a lot can go sideways if you're not prepared. Audio can cut out, video can freeze, screen-sharing might fail, or participants can get lost in breakout rooms. Even simple things, like someone joining late or having connection issues, can disrupt the flow. That's why having a producer is so important. They handle all these technical hiccups behind-the-scenes, manage chat questions, keep breakout rooms on track, and make sure the session stays smooth and engaging.

Ending the session

Think of your training session like a great meal. You wouldn't serve an amazing appetizer and main course, and then just leave the table before dessert, right? A strong closing is your chance to reinforce key takeaways, leave a lasting impression, and make sure learners walk away feeling energized (rather than logging off and forgetting everything). Here are some quick wins to try out:

- » **Summarize.** Go over the key points and takeaways to refresh memories and reinforce ideas.
- » **Thank them.** Thank participants for their time and contributions as you conclude the session.
- » **Confirm follow-ups.** Go over any next steps or follow-up actions.
- » **Ask for questions.** If you leave questions until the end, make sure you build in enough time.



TIP

If the group is small, turn it into a mini spotlight moment. Ask each learner to share a quick *aha!* from the session and how they plan to use it.

Following up

Don't let the learning stop when everyone logs off. Follow-up is what makes real learning stick. A thoughtful check-in helps learners transfer what they learned to their daily work and keeps the energy alive after the session. Try sending a quick thank-you email or short recap video, posting key takeaways in your team's chat space, or offering optional follow-up discussions.

Foster peer-to-peer connections by pairing learners to share (over a given period of time) how they've applied a skill or to troubleshoot challenges together. These short exchanges help build confidence, accountability, and a sense of shared growth long after the session ends.

Suggest manager-to-peer conversations so supervisors can reinforce learning goals and recognize progress. When managers take time to ask how new skills are being used, it signals that the training matters and encourages continued practice on the job.

Host a brief group follow-up session to celebrate wins and discuss what is and isn't working. This gives everyone a chance to reflect, swap success stories, and crowdsource solutions that can make future sessions even stronger.



TIP

AI can turn follow-up from a chore into a meaningful, data-driven part of the learning experience. For instance, it can automatically generate personalized recap emails, summarize chat transcripts into key takeaways, or create quick surveys to gather feedback. (Check out Chapter 19 for more on feedback.) It can even suggest peer matches or discussion prompts based on each learner's participation.

BEING ADAPTABLE AND FLEXIBLE

Adaptability and flexibility are key to being a top-notch trainer. When things don't go as planned, turn challenges into opportunities for engagement. Here's how:

- **Make the most of disruptions.** Use tech issues and other interruptions as a chance to throw out an icebreaker or some trivia, keeping the mood light and engaging.
- **Pivot on the fly.** Lean into surprise topics; sometimes the best learning happens when you get offtrack.
- **Encourage creative problem-solving.** Tech issues can spark innovation. Ask participants to share tech hacks or tools.
- **Humanize the experience.** Share your own learning moments to inspire participants to embrace challenges.

Knowing and Avoiding the Pitfalls

VILT can be highly effective, but even the smoothest road may have potholes. Table 12-2 showcases some of the pitfalls to be aware of and ways to possibly counter them.

TABLE 12-2

Dealing with VILT Challenges

Pitfalls	Countermeasures
Technical issues	Test your tech beforehand. Have a backup method (phone, chat). Use alternative platforms if possible. Share platform tips (raise hand, turn on captions, use chat, and so on).
Engagement	Use polls, breakout rooms, and Q&A. Set clear objectives. Minimize distractions (mute notifications, find a quiet space).
Nonverbal cues	Encourage camera use so you can see participants' faces. Regularly check for signs of understanding (nods, furrowed brows).
Fatigue	Schedule breaks. Keep sessions short and focused. Vary formats (discussions, presentations).
Overcrowding	Limit attendees to fewer than 25. Use breakout rooms for discussions and activities.
Security risks	Use secure, encrypted platforms. Set clear guidelines for sharing sensitive information. Keep software updated.
Unequal participation	Assign a facilitator to balance input. Encourage quieter attendees to participate. Allow attendees to use chat features to make comments.
Lack of connection	Start with icebreakers. Include informal social time. Recognize contributions.

(continued)

TABLE 12-2 *(continued)*

Pitfalls	Countermeasures
Tech dependence	Have backup platforms. Encourage manual note-taking. Ensure IT support is available.
Cultural gaps	Provide cultural awareness tips. Encourage clear, patient communication. Foster inclusivity.

**TIP**

AI can reduce common VILT challenges by troubleshooting technical issues, boosting engagement with interactive tools, and detecting when learners are disengaged. It helps manage fatigue and overcrowding, ensures equal participation, strengthens connections, and enhances security. AI can also bridge cultural gaps and support inclusivity, making virtual training smoother, more engaging, and effective.

IN THIS CHAPTER

- » Knowing the basics of GBL and how to include games in your training
- » Achieving gamifying success with AI power
- » Using Bloom's Taxonomy to incorporate gamelike elements into T&D
- » Making GBL rewarding and addressing issues with gamification
- » Finding ready-made games that work for GBL
- » Motivating learners without manipulating them

Chapter **13**

Upping the Ante with Game-Based Learning

Remember when you were a kid and games were the ultimate source of joy? Whether you were racing toy cars, playing tag, or battling your siblings in a board or video game, the thrill was irresistible. The best part? That spark never really goes away. Adults might trade in toy cars for racing games, tag for fitness apps, and board games for fantasy leagues, but the joy of a good challenge and a little friendly competition is still the same. So why not harness that same excitement to level up people's skills in the workplace?

That's exactly what game-based learning (GBL) does. It takes the fun, strategy, and instant feedback we love in games and applies them to training and development (T&D) — turning learning into something interactive, motivating, and effective.

This chapter explores how games can boost engagement, motivation, and critical skills like collaboration and problem-solving, transforming T&D into an interactive experience.



REMEMBER

AI can seriously level up gamelike training by personalizing experiences and making them more engaging. Tools such as ChatGPT and Articulate xAPI create dynamic challenges based on a learner's progress, giving them a tailored path through the game that adapts as they improve. AI also enables real-time feedback, helping learners adjust and grow as they play. Plus, it can generate scenarios that feel super realistic, making the whole experience more immersive and fun. So, instead of just playing for the sake of it, learners get a meaningful, interactive experience that drives real-world results.

Understanding What GBL Is and Isn't

GBL and gamification are two powerful strategies that bring excitement and engagement to T&D. Here's a brief rundown of their differences:

GBL uses actual games to teach concepts or skills, and learning happens through gameplay. For example, learners can play a quiz-style or challenge-based game that's based on a specific topic. The game itself is the learning experience.

Gamification applies gamelike elements (points, badges, leaderboards, and so on) to nongame contexts, like training or education, to enhance engagement and motivation.

These strategies aren't entirely separate; they intersect in some interesting ways. Both are designed to make learning more engaging and fun, just through different methods. For example, you may find yourself using game mechanics, like points or leaderboards, within a game-based scenario to keep learners motivated. Or, in a hybrid approach, you can integrate challenges from GBL with rewards from gamification to deepen the experience. It's all about finding the right balance to make learning not just effective, but memorable.



REMEMBER

Whether you choose GBL, gamification, or a mix of both, the key is to align the approach with your training objectives and your learners' needs. The rest of this section dives deeper, clearing up exactly what GBL is and, just as importantly, what it isn't.

What GBL is:

- » **Motivating and engaging:** Games provide clear goals, feedback, and rewards that keep employees motivated during training.
- » **Reinforcement for positive behavior:** Rewards and progression systems (like badges) encourage continued participation and achievement.
- » **Experiential learning:** Learners experience challenges, make decisions, and learn from in-game consequences. Games offer a safe space to experiment and learn from mistakes without real-world consequences.
- » **Healthy competition and collaboration:** Leaderboards and team challenges foster both friendly competition and single-minded cooperation.
- » **Bonding and teamwork:** By turning collaboration into a shared adventure, every challenge conquered and milestone achieved strengthens learners' bonds and fuels a sense of collective victory (Figure 13-1).



FIGURE 13-1:
Level up team
spirit and
bonding
through GBL.

Visual Generation/Adobe Stock Photos

What GBL isn't:

- » **Just points and badges:** GBL isn't just about superficial gameplay; it's about creating meaningful, engaging experiences.
- » **A one-size-fits-all solution:** It's not a universal fix for spicing up your training. It needs to align with specific learning and organizational goals.
- » **A replacement for traditional learning:** It enhances, but doesn't replace, traditional training methods.
- » **All about competition:** While competition can be motivating, games also promote collaboration and reward personal achievement.
- » **Complex or overly technical:** Gameplay doesn't have to be elaborate — simple, playful games can work too.
- » **Only for younger people:** Games can engage employees of all ages, not just younger workers.

Incorporating Games into Your Training

When you're designing a game, you need to have clear, definite objectives to keep the game focused and effective. Without objectives, the game can feel like a wild goose chase, and players may not get the full benefit of GBL. For example, instead of setting a simple goal like *learn the system*, aim for something specific like *analyze customer data* or *apply product knowledge in a scenario*. Whether you're training employees to solve problems or master a new software program, having clear objectives ensures that everyone knows what success looks like and how to get there.



TIP

To define what learners should be able to do at each stage of the training and following the training, use powerful verbs like *remember*, *apply*, *analyze*, *evaluate*, *integrate*, *demonstrate*, *create*, etc. to guide players through the learning journey.

Including intrinsic strategies with AI's support

Do you recall learning to play a musical instrument as a kid? Maybe you were forced to practice because your parents were convinced it would build character. Your rewards? Stickers on a chart, the promise of extra TV time, or the ultimate prize: being allowed to quit after 30 minutes instead of an hour. But somewhere

along the way, something wonderful happened. You nailed a tricky passage or played a song without messing up (much), and suddenly, the learning was actually fun. That feeling of accomplishment or pride was an *intrinsic* reward.



REMEMBER

Gamelike strategies go far beyond earning badges and getting to the top of the leaderboard. They're about building real skills and making learning something people want to keep doing. Just like learning an instrument, the intrinsic joy comes when progress feels natural and personal.

Here's how the idea of intrinsic rewards and strategies plays out, especially with AI's support:

- » **Content creation:** With data-driven insights, AI helps trainers continuously refine content (like musicians) perfecting their craft with every performance.
- » **Engaging activities:** AI-powered quizzes, challenges, and scenarios adapt to each learner's level, turning practice into an exciting challenge rather than a chore.
- » **Feedback:** Instant personalized feedback helps learners fine-tune their skills, just like a music teacher guiding their student through each note.
- » **Relevance:** AI ensures learning stays meaningful and connected to real-world goals, keeping motivation high.
- » **Rewards:** Like an audience applauding for a musician, AI can personalize rewards — coins, badges, or recognition — to highlight the learner's growth, not just their completion of a task.
- » **Technology:** Modern learning management system (LMS) platforms use AI to track progress, recommend next steps, and keep learners on rhythm — like a digital music coach or metronome.

Keeping It Simple with AI's Help

Games used in GBL don't have to be complex or time-consuming. With AI tools, even simple games can become smarter, fairer, and more personalized. AI can track participation, analyze engagement, and suggest future challenges based on team interests and performance trends.

Consider how AI can assist you with some of these easy-to-run team-building and training activities that combine simplicity with lasting impact:

- » **Guess the baby picture:** Digitizing this lighthearted classic by collecting and randomizing photos to create virtual guessing games. (This is always a crowd pleaser.)
- » **Individual challenges:** Tracking metrics and highlight achievements that may otherwise go unnoticed as learners compete for a “top performer” award.
- » **On-the-spot rewards:** Randomly selecting individuals or teams for recognition when they complete key tasks or reach milestones.
- » **Quick challenges:** AI can automate leaderboards and instantly share results as teams compete to see who can make the longest paper clip chain in one minute.
- » **Recognition badges:** Creating virtual or physical badges like Customer Service Star or Innovation Champ can be automatically awarded based on AI-monitored goals or milestones.
- » **Show-and-tell:** Helping to moderate and time sessions, ensuring everyone gets a turn and even generating recap highlights afterward.
- » **Trivia games:** Generating customized trivia questions about company culture, industry facts, or trending topics. Platforms like Kahoot or Zoom polls enhanced with AI can adapt difficulty based on player performance, keeping everyone engaged.
- » **Virtual escape rooms:** Creating online escape rooms powered by AI adjust puzzles based on team dynamics and problem-solving styles.
- » **Word challenges:** Scoring answers automatically and even flag unique or creative responses in real time.

Digging deeper into how AI can help

While many AI tools can help you develop or adapt games for training purposes, think for a moment about the versatility of *chatbots*. For example, ChatGPT can offer creative solutions when you’re stuck, generate content, and suggest interactive features for all kinds of games, learning activities, and engagement systems. Here are some ways ChatGPT can assist you with GBL:

- » **Behavioral motivation:** Delivering personalized feedback, adaptive challenges, and encouragement that adjusts to each learner’s performance.

- » **Content creation:** Quickly producing trivia questions, puzzles, or themed challenges tailored to your audience or training goals.
- » **Design and concept development:** Brainstorming game ideas, design mechanics like points or leaderboards, and adapt activities to match team goals or skill levels.
- » **Interactive engagement:** Powering chat-based characters, virtual hosts, or AI-driven prompts that guide and motivate participants.
- » **Gamified learning systems:** Developing adaptive learning paths and educational games that adjust to each learner's pace and skill level.
- » **Gamified systems for nongame applications:** Designing incentive programs, contests, or workplace engagement challenges using gamification principles.
- » **Progression and reward systems:** Building dynamic badges, levels, and progression systems that recognize effort and achievement automatically.
- » **Prototyping and playtesting:** Simulating how games will run, balance their difficulty, and test engagement before rolling them out.
- » **Storytelling and narrative design:** Generating creative storylines, missions, or role-play scenarios that make games more immersive and bring learning to life.

Going beyond basic chatbots

Beyond the capabilities of basic chatbots, more sophisticated AI tools can significantly enhance the games and GBL you incorporate into your training. Table 13-1 showcases some AI tools and technologies that can be particularly useful for specific gamified learning functions.

TABLE 13-1 AI Tools and Their GBL Function

AI Tool	Platform/App and How It Works
Chatbots and Conversational Agents	<p>Drift (https://www.salesloft.com/welcome-drift): Uses AI to engage users in real-time conversations, which can be gamified by incorporating quizzes, challenges, or rewards.</p> <p>Intercom (https://www.intercom.com/): Provides AI-driven chatbots that can be programmed to create interactive experiences and guide users through gamified elements.</p>

(continued)

TABLE 13-1 *(continued)*

AI Tool	Platform/App and How It Works
Personalization Engines	Dynamic Yield (https://www.dynamicyield.com/ai/): Uses machine learning to personalize user experiences and can integrate games by tailoring challenges and rewards to individual preferences. Algolia (https://www.algolia.com/): Offers personalized search experiences that can be gamified by suggesting challenges or rewards based on user interactions.
Content Generation Tools	Copy.ai (https://www.copy.ai/): Generates creative content for gamified experiences, such as storylines, prompts, and descriptions. ChatGPT (https://chatgpt.com/): Advanced versions can be used to create interactive narratives or dialogues for gamified applications, enhancing user engagement.
Game Design and Development Tools	Unity AI (https://unity.com/ai): Supports AI-driven features for creating dynamic and engaging game elements. Unreal Engine (https://www.unrealengine.com/): Offers tools for integrating AI into game design, including behavior trees and procedural generation for creating complex gamified experiences.
Behavioral Prediction Tools	Salesforce Einstein (https://www.salesforce.com/ap/products/einstein): Offers predictive analytics to tailor gamified experiences and anticipate user needs.
Voice Assistants	Amazon Alexa Skills Kit (https://developer.amazon.com/en-US/alexa/alexa-skills-kit): Allows the creation of voice-activated gamified experiences and can use AI to adapt interactions based on user responses. Google Assistant Actions (https://developers.google.com/assistant/console): Enables the development of interactive and gamified voice applications, leveraging AI to enhance user experiences.

Applying Bloom's Taxonomy to Your GBL Sessions

Taxonomy is a way of organizing things into categories based on similarities, like sorting groceries into aisles. Bloom's Taxonomy (introduced in 1956 by Benjamin Bloom and a group of educators) was originally an assessment tool. This is a six-step framework for designing learning experiences, progressing from simple recall to complex creation and has become the gold standard for structuring learning objectives. You can use this structure to incorporate gamelike elements into your training, as the following examples show.

Example 1: Becoming a Company Explorer

Objective: Help new hires quickly understand company culture, policies, and procedures through an interactive experience.

1. **Remember:** Match company terms with definitions.
2. **Understand:** Complete quizzes on policies.
3. **Apply:** Solve work scenarios.
4. **Analyze:** Break down company processes.
5. **Evaluate:** Assess strategies in case studies.
6. **Create:** Improve a company process.

Badges and a leaderboard motivate progress, with learners earning a “Master Explorer” title for completing all levels.

Example 2: Sales Champion Quest

Objective: Help players improve sales skills by answering customer objections in scenarios.

1. **Remember:** Earn points for memorizing product features and policies.
2. **Understand:** Complete challenges explaining sales concepts.
3. **Apply:** Role-play sales exercises.
4. **Analyze:** Analyze customer data and sales calls.
5. **Evaluate:** Judge sales leads and peer review strategies.
6. **Create:** Design sales campaigns.



AI
SPOTLIGHT

GAME ON: A CASE STUDY

Here’s a hypothetical scenario ChatGPT came up with to show how games can work for a small business that wants to make learning more engaging and memorable. Think of it as a way to spark ideas for using game mechanics to make training more engaging and effective.

Case study: BryghtTech Solutions’ Gamified Training Success

(continued)

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Company overview: BryghtTech Solutions, a 100-employee IT services company, specializes in modernizing small businesses' tech infrastructure. The company needed to improve its cybersecurity training for its growing team of consultants and support staff.

Challenge: Traditional training methods weren't engaging employees, and key cybersecurity concepts were often forgotten. BryghtTech sought a solution to

- Boost training engagement.
- Reinforce knowledge retention.
- Encourage healthy competition and collaboration.

Solution: Games

BryghtTech implemented the CyberQuest platform, gamifying cybersecurity training with

- **Scenario-based challenges:** Employees completed missions like securing a company's network or spotting phishing emails.
- **Leaderboards:** Points were earned for speed and accuracy, promoting friendly competition.
- **Badges and rewards:** Achievements like "Phishing Detective" earned employees real-world rewards such as gift cards or extra paid time off.

Outcomes:

- **Improved engagement:** Participation increased by 40 percent in three months.
- **Better retention:** Employees showed 60 percent improvement in identifying cybersecurity threats.
- **Enhanced teamwork:** Team-based missions improved cross-department collaboration.
- **Compliance success:** The company and its employees achieved 100 percent compliance with cybersecurity certifications.

Key takeaways: BryghtTech transformed cybersecurity training into an engaging, competitive experience, improving both knowledge retention and teamwork while fostering a culture of continuous learning.

Reaping the Rewards

Rewards tap into people's need for recognition and accomplishment, making tasks more engaging. They provide motivation, reinforce positive behaviors, and encourage continued participation. AI takes these classic game elements and makes them smarter, more personalized, and easier to manage. It can automate tracking, analyze engagement patterns, and adapt challenges to each learner's progress — all while giving trainers real-time insights. Here are some of the ways AI does its magic:

- » **Achievements:** Recognizing key milestones automatically, reinforcing progress and effort.
- » **Badges:** Generating and awarding digital badges based on achievements or learning milestones.
- » **Leaderboards:** Updating rankings in real time, keeping competition fair and motivating.
- » **Levels:** Unlocking new stages or content as learners meet specific skill or performance criteria.
- » **Points:** Tracking progress automatically and comparing performance across individuals or teams.
- » **Progress bars:** Visualizing learning advancement with dynamic updates from AI analytics.
- » **Real-world rewards:** Connecting digital accomplishments to tangible incentives, like gift cards or team events.
- » **Social recognition:** Highlighting top performers or contributors in shared spaces, fostering community and healthy competition.
- » **Unlockable content:** Using triggers to release content when learners reach goals or complete challenges.
- » **Virtual goods:** Distributing digital rewards like *avatars* or tokens based on activity data.



TIP

GBL is about recognizing learners' achievements in meaningful ways, and sometimes, the best reward is the gift of time. Consider offering additional time off, like an extended lunch or a shortened workday before a long weekend. You can also offer more work-from-home days or provide a break from an overwhelming project.

Overcoming the Challenges

Although games can greatly enhance workplace training, incorporating GBL into your training brings challenges that demand thoughtful solutions. AI can help you overcome many of these issues by personalizing learner experiences, automating feedback, and tracking effectiveness, but it can't replace clear goals and good planning. You can address the following challenges with AI's assistance:

- » **Alignment with goals:** Games must reinforce business objectives, not distract from them. AI analytics can help ensure outcomes stay on track.
- » **Complexity:** Overly complicated GBL systems discourage participation. AI can simplify design and adjust difficulty as learners progress.
- » **Cost and resources:** AI-powered tools streamline development and maintenance of GBL systems, making gamification more affordable and scalable.
- » **Cultural fit:** What excites one group may not resonate with another. AI can detect sensitive differences and adjust content to be more inclusive and respectful.
- » **Engagement:** Employees are motivated by different things. AI can tailor rewards and challenges to individual preferences to boost engagement.
- » **Resistance to change:** When gamification feels manipulative, employees push back. AI can personalize and humanize the experience to build trust.
- » **Sustainability:** Games should promote long-term growth, not just short-term excitement. AI insights can guide this balance.



WARNING

As with any data-driven system, you must use AI responsibly to protect employee information and ensure transparency in how personal data is collected, stored, and used.

Purchasing OTS Games

The following sections give you a solid starting point for finding off-the-shelf (OTS), ready-made digital or physical games that can add an element of fun and engagement to your training sessions. Think of OTS like browsing a well-stocked toolkit; everything you need is already there; you just have to choose the right tools to match your needs.

Board and card games

Board and card games are familiar to just about everyone. They turn strategy, teamwork, and problem-solving into hands-on fun, making training sessions more interactive and memorable.

- » **The Game Crafter** (<https://www.thegamecrafter.com/>): This is a custom game creation platform, but they also have a variety of ready-made games that can be used in training settings.
- » **MindWare** (<https://www.mindware.orientaltrading.com/>): Known for educational games that can be adapted for training purposes, this platform is a great source for problem-solving and strategy-based games.

Digital GBL tools and platforms

Digital games bring the same excitement of play into the virtual space. These familiar, easy-to-use tools make learning feel more like a challenge than a chore — whether learners are earning points, racing a timer, or competing on a leaderboard.

- » **Kahoot!** (<https://support.kahoot.com/>): This well-known online platform for creating quizzes, polls, and challenges is gamified, allowing for points and leaderboards, and can be used in various training scenarios.
- » **Quizlet** (<https://quizlet.com/>): This site has various study modes and can be used to create games to reinforce learning, like gamified quizzes and digital flashcards.
- » **Moodle** (<https://moodle.org/>): This LMS has built-in game features, including badges, points, and levels that you can apply to course progress.

Gamified learning platforms

By adding points, badges, and interactive challenges, gamified learning platforms make learning feel familiar and fun — like leveling up in a game they already love.

- » **Brilliant** (<https://brilliant.org/>): This interactive learning platform uses games to teach complex concepts, which can inspire your own training designs.
- » **Duolingo** (<https://www.duolingo.com/>): Although it focuses on language learning, Duolingo's gamified approach can be used as a model for broader training purposes.

» **TalentLMS** (<https://www.talentlms.com>): This LMS offers gamelike tools, such as achievement badges, points, and progress bars, to enhance the learning experience.

Marketplaces for training games

Marketplaces for training games make it easy to find ready-made resources that spark engagement.

» **TeachersPayTeachers** (<https://www.teacherspayteachers.com>): This is a marketplace offering a range of premade games and resources designed by educators, many of which can be adapted for corporate training or team building.

» **BoardGameGeek** (<https://boardgamegeek.com/>): This site hosts a community of game enthusiasts and is a treasure trove of resources for discovering both physical and digital games, reviews, and ideas that can be adapted for training and team-building activities.

Knowing and Avoiding the Pitfalls of GBL

Although using games in your training can be highly effective, if you aren't careful, GBL can turn into a gimmick, leading to superficial engagement rather than meaningful learning. Instead of motivating employees, it can become a distraction or even a manipulative tool that misses the mark entirely. Table 13-2 lists some of the pitfalls to be aware of and ways you can counter them.

TABLE 13-2 Common GBL Pitfalls and Their Countermeasures

Pitfall	Countermeasure
Overemphasis on rewards	Balance intrinsic and extrinsic rewards; provide meaningful feedback that promotes learning and growth.
Unhealthy competition	Encourage collaboration through team-based goals and celebrate collective achievements.
Manipulation	Be transparent about goals; involve employees in game design and empower them with engaging content.
Neglect of intrinsic motivation	Foster autonomy, allowing employees to engage in ways that align with their personal goals.

Pitfall	Countermeasure
One-size-fits-all approach	Personalize experiences through adaptive learning and regular feedback to adjust strategies.
Burnout	Design mindful experiences with breaks and integrate well-being activities.
Data privacy concerns	Be transparent about data collection, involve employees in privacy discussions, and empower users with control over their data.
Shallow learning	Design games for depth, encouraging critical thinking and long-term engagement.



TIP

AI can help you counter these pitfalls in the following ways:

- » **Adaptive feedback:** Providing real-time, constructive feedback, emphasizing learning progress over superficial rewards.
- » **Content depth:** Recommending deeper learning resources and challenges, promoting meaningful engagement over shallow task completion.
- » **Data analysis:** Tracking and analyzing user behavior to identify unhealthy competition or burnout, allowing for timely adjustments.
- » **Engagement insights:** Monitoring engagement levels, helping you design balanced experiences that promote intrinsic motivation.
- » **Personalization:** Tailoring learning experiences to individual preferences and styles, ensuring engagement and relevance.
- » **Privacy protection:** Enhancing data security and privacy measures, ensuring trust and transparency in data handling.

By using AI to address these potential pitfalls, you can create a more supportive, effective training environment that empowers employees to thrive. It's having a skilled guide who clears the path ahead so everyone can move forward with confidence.

IN THIS CHAPTER

- » Connecting with learners through podcasting
- » Finding essential equipment and helpful AI tools
- » Understanding the keys to hosting a successful podcast
- » Ensuring your podcast reaches a wide audience
- » Being aware of potential issues

Chapter **14**

Navigating the Podcast Scene

Podcasts are the Swiss Army knives of training — compact, powerful, and ready to go anywhere, anytime. Whether you're rolling out internal training or trying to reach a wider range of learners, podcasts fit seamlessly into busy lives and can turn commutes, workouts, and coffee breaks into productive learning time.

For example, onboarding podcasts introduce new hires to your company culture, processes, and resources, all in an easily digestible format. Skill development podcasts may cover topics like leadership, communication, or technical competencies, offering bite-size lessons that can be consumed on the go. Whether you're aiming to improve soft skills, product knowledge, or overall performance, podcasts can make it a training experience learners will want to revisit again and again.

If the idea of creating a podcast feels overwhelming, don't dismay. This chapter turns your anxiety into excitement as you discover ways to add a splash of creativity and a dash of enthusiasm to your podcasting quest and transform your

training material into a captivating experience. So, grab your recording gear and find out how to craft a podcast that will keep your learners waiting to tune in for the next episode.

Podcasting: Your Ticket to Accessibility and Convenience

When your training can use a little extra sparkle, podcasts are the perfect sidekick. They're flexible, engaging, and can turn even the driest topic into something your learners actually want to tune in to. (While most podcasts stick to audio, some mix in visuals for a little extra flair. Curious how podcast videos stack up against regular videos? Flip over to Chapter 15 to learn more.) Here's why podcasts are worth adding to your toolkit:

- » **Accessible and flexible:** Podcasts support auditory learners and those with visual impairments. Because they're available anytime and anywhere (during commutes, workouts, or breaks) learners can absorb content at their own pace.
- » **Authoritative and engaging:** Interviews with industry leaders, storytelling, and real-life case studies make podcasts both credible and captivating. Sound effects and conversational pacing help sustain attention and make learning enjoyable.
- » **Consistent and scalable:** Once produced, podcasts deliver the same message to every listener, making them ideal for topics such as onboarding, safety, or compliance training.
- » **Cost-effective and supplemental:** Podcasts are relatively inexpensive to create and distribute, and they pair well with other learning formats such as videos, written guides, or interactive modules.



TIP

If you've never listened to a podcast, and want to check out one on public speaking, try this one: <https://podcasts.apple.com/us/podcast/the-public-speakers-quick-and-dirty-tips-for/id288508989> or one on leadership, check out <https://podcasts.apple.com/us/podcast/the-leadership-podcast/id1124942958>. Both are free.

Using Podcasts to Integrate Sound and Skills

Speaking on a podcast is like hosting an invisible party. Your voice sets the mood, your words keep listeners engaged, and your energy makes them want to stay. Keep the conversation natural like you're chatting with a friend (but with a touch of polish). Play with your pacing, emphasize key points, and let your personality shine. And remember — smiles can be heard.

It's that same energy and warmth that make podcasts such a valuable training tool. They don't just deliver information; they build connections, reinforce learning, and bring ideas to life in a way that feels human and accessible. In training, podcasts can add energy, flexibility, and staying power. Here are several reasons to use podcasts can enhance your sessions:

- » **Reinforcing learning before and after training:** Podcasts can preview key topics before a session and refresh them afterward to help learners retain what they learned.

Example: Before a conflict-resolution session, a short podcast introduces common workplace misunderstandings. After training, another episode reviews practical steps for resolving them.

- » **Delivering microlearning between sessions:** Training doesn't have to happen all at once. Podcasts can provide quick learning bites that keep skills top of mind between formal sessions.

Example: A five-minute weekly "Skill Boost" podcast shares one technique from the last training such as how to give constructive feedback, so learners can practice it immediately.

- » **Extending classroom learning into real work:** Podcasts make it easier for learners to apply training concepts on the job.

Example: After a project management session, short follow-up episodes highlight how to use scheduling tools or manage team check-ins effectively, reinforcing day-to-day use.

- » **Supporting continuous learning in training programs:** Ongoing learning is key to behavioral change, and podcasts keep training alive after the formal session ends.

Example: A leadership program releases biweekly podcasts featuring managers discussing how they applied lessons in real scenarios, reinforcing continuous growth.

- » **Providing JIT (just-in-time) refreshers:** Podcasts can be accessed right when learners need them, which is ideal for refreshing skills or solving problems quickly.
Example: Before conducting a performance review, a manager listens to a short episode on giving balanced feedback — right when the skill matters most.
- » **Enhancing engagement and accessibility:** Not everyone learns best from slides or manuals. The conversational tone of podcasts adds variety to training delivery and engages auditory learners.
Example: A compliance course supplements reading materials with a podcast series where trainers discuss common mistakes in plain language.
- » **Fostering reflection and follow-through:** Podcasts encourage learners to think about what they've learned and how to apply it.
Example: Each episode ends with a reflection prompt such as “How did you use this skill this week?” — to promote accountability and habit-building after training.

Ready? You've got the ideas, the voice, and the drive. Now it's time to let a little AI magic work behind-the-scenes. From polishing your audio to sparking fresh content ideas, the next section shows how AI tools can help you create podcasts that sound as good as they *feel*.

Snagging the Best AI Tools

AI tools and platforms can help you streamline your workflow and focus on creating content that keeps your audience hooked. How? AI can optimize your audio, detecting background noise and ensuring studio-quality sound. During editing, you can use AI tools to remove awkward pauses and filler words, enhance voice clarity, and balance sound levels. And in postproduction, AI can instantly transcribe show notes and suggest the perfect sound effects and music to elevate your podcast.

Here are some useful AI tools for podcasters:

- » **Adobe Podcast** (<https://podcast.adobe.com/>): Formerly known as Project Shasta, Adobe Podcast uses AI to clean up and enhance podcast audio, offering tools for noise reduction and sound leveling.
- » **Alitu** (<https://alitu.com/>): This AI podcast-production tool features text-based editing and automatic removal of breath sounds, filler words, and long pauses.

- » **Auphonic** (<https://auphonic.com/>): This is an audio-processing tool that uses AI to balance levels, reduce noise, and optimize sound quality. It can be particularly useful for postproduction work.
- » **Capsho** (<https://www.capsho.com/>): An AI content writer that repurposes your podcast episode into various types of content marketing assets, from social media captions to blog posts and more.
- » **Cleanvoice** (<https://cleanvoice.ai/>): This AI-driven tool cleans up podcast audio by removing filler words, stutters, and other imperfections. It helps streamline the editing process and improve overall sound quality.
- » **Descript** (<https://www.descript.com/>): This platform offers a range of features, including automatic transcription, audio editing, and even AI-generated voice-overs. Its overdubbing feature allows you to generate realistic speaker audio for corrections or voice-overs.
- » **Otter.ai** (<https://otter.ai/>): This AI-powered transcription service can convert spoken content into text, making it easier to create show notes, blog posts, or searchable content. It can also assist with editing by identifying and removing filler words or mistakes.
- » **Podcastle** (<https://podcastle.ai/>): This platform provides tools for recording, editing, and enhancing podcast audio. It includes features like noise cancellation, automatic transcription, and AI-powered enhancements to improve sound quality.
- » **Podpage** (<https://www.podpage.com/>): This website developer can build a podcast website in minutes, supported by a suite of AI writing and engagement tools.
- » **Spext** (<https://www.spext.co/>): This site allows you to edit audio by editing the text transcript. It's useful for quick corrections and adjustments to your podcast content.
- » **Suno.ai** (<https://suno.com/home>): This is a powerful AI song and music generator.
- » **Synthesia** (<https://www.synthesia.io/>): This tool uses AI to create video content, including podcast visuals. If you want to add a video component to your podcast, Synthesia can generate talking head videos using AI avatars.
- » **Wondercraft** (<https://www.wondercraft.ai/>): If you need voice cloning and dubbing tools, with features to create shareable videos, this platform is for you.

Tuning Up with the Right Gear

With the right tools in place (as shown in Figure 14-1), you'll ensure your message comes through clearly, keeping listeners engaged and focused on what matters most: *learning*. You don't need to go overboard, but here's an overview of what you'll need:

- » A good microphone and headphones
- » A recording device, such as your computer or smartphone
- » A camera (if you're incorporating video)
- » Basic soundproofing
- » Reliable editing software



FIGURE 14-1:
Gear up and
speak up.

adniluy/Adobe Stock Photos



WARNING

Poor audio quality, such as fuzzy sound or distracting echoes, can pull learners out of the moment, and you'll lose them forever.

Ready to dive in? Whether you're just starting out or looking to fine-tune your approach, a few key technical elements can help you create a podcast that's as smooth as your favorite playlist. From putting together the perfect technical setup, to editing your recordings for sound quality and consistency, here's a quick guide to ensure your podcast is a hit.

Preparation and setup

- » **Technical setup:** Ensure you have a high-quality microphone and recording equipment. Test your equipment before recording your podcast to avoid technical issues.
- » **Environment:** Choose a quiet environment with minimal background noise. Using soundproofing or a pop filter (a microphone attachment that reduces popping sounds) can enhance your audio quality.

Voice and delivery

- » **Tone and pace:** Tools such as Elevenlabs (<https://elevenlabs.io/studio>) and Justdone (<https://justdone.com/ai>) help you create a conversational tone and pace that's both professional and approachable.
- » **Clarity and articulation:** Vary your pace and intonation, speak clearly, and articulate your words. (Avoid speaking too quickly or too slowly, and use pauses effectively to give listeners time to absorb information. Check out Chapter 11 to learn more about tone.)

Engagement and interaction

- » **Address the audience:** Speak directly to your learners and use inclusive language. Phrases like *you may find this useful* or *let's explore this further* can create a connection with them.
- » **Feedback and Q&A:** If possible, incorporate feedback from previous episodes or include a Q&A segment where you address listeners' questions. This can make the podcast more interactive and responsive to their needs.

Editing and production

- » **Quality:** After recording, use editing software or an AI-powered platform like Adobe Audition (<https://www.adobe.com/products/audition.html>) to remove any mistakes, pauses, or background noise. Add music or sound effects if appropriate as long as they don't distract from the content.

Distribution and promotion

- » **Publishing:** Choose a reliable podcast hosting platform and ensure your podcast is available on major platforms like Apple Podcasts and Spotify.

» **Promotion:** Promote your podcast through various channels such as social media, email newsletters, and professional networks. Joining online communities related to your topic can also help increase your visibility.

Kicking Off Your Podcast Journey

Whether you're a seasoned podcaster or a newbie with big dreams, grab your microphone and harness AI tools to transform your training goals into an epic podcast. From automated editing and transcription to AI-generated voice-overs, your podcast can be polished and captivating, keeping your listeners hooked from start to finish.

Knowing your learners

Find out as much as you can about your learners. Are they at the beginner, intermediate, or advanced level on the topic you're addressing? Know their ages, interests, and professions to create content they'll love. (Check out Chapter 8 for a deep dive into who they are.) Research similar podcasts, gather feedback through surveys or social media, and tailor your episodes accordingly. The more you understand your learners, the more engaging your podcast will be. This will help you build a loyal following.



TIP

AI-powered analytics tools (such as those listed earlier in this chapter) can provide deeper insights into listener behavior, preferences, and trends. This data helps you understand what resonates with your audience and how to refine your strategy to keep them interested. AI can analyze listener feedback, reviews, and social media mentions to gauge sentiment and identify areas for improvement.

Defining your objectives

The first step in crafting a training podcast is to clearly define your objectives. Knowing your goals (whether you aim to provide an overview of the topic, deliver detailed training, or share best practices) will guide your content creation process. Similarly, having a level of expertise in mind — whether you're targeting beginner, intermediate, or advanced learners — helps ensure that your content is both relevant and engaging.

Researching and developing content

Once you establish your objectives and identify your who your learners are, thoroughly research your topic. Gather accurate and up-to-date information from reliable sources so you can begin to develop your content. With this information, you can create a structured outline to organize your thoughts and sketch out the flow of your content. Your outline should include an introduction, key points, examples or case studies, and a conclusion.

Writing a detailed script based on this outline helps you stay on track and maintain clarity and coherence. (There's a full discussion of scripting in Chapter 9.) It's important to use language your learners will understand, avoiding jargon unless it's appropriate, and always providing explanations for complex terms. (Unlike in this book, in a podcast, there's no "go to" glossary.)



TIP

AI tools like ChatGPT can help you generate ideas for podcast topics, create outlines, and draft scripts. This can streamline the content creation process and ensure a consistent flow of episodes.



WARNING

AI tools can sometimes provide inaccurate or incomplete information. Always double-check facts and verify details from a variety of sources.

Bringing learners into the experience

Interactive elements are key to making your podcast unforgettable. You want to create an experience that invites everyone to actively participate, not just passively consume content.

For example, you can pose reflective questions that encourage learners to pause and think deeply about how the material relates to their own experiences. Or you can give them a series of challenges to tackle after each segment, encouraging them to apply what they've learned in real-world scenarios.

Quick polls or surveys are also effective for gauging learners' understanding of the topic or their gathering opinions, and they also help spark a sense of community among listeners. Calls to action, whether you're prompting them to download a resource, share their thoughts on social media, or take a specific action in their own work, give your audience a tangible next step.

This engagement goes beyond just retaining the information. It fosters a deeper connection to the content, making it more likely they'll return for future episodes. So, don't just talk at your learners; bring them into the experience and keep the momentum going.



TIP

AI can help you personalize learner engagement in various ways. For example, AI algorithms can analyze listener behavior to suggest other podcast episodes or related content, keeping your audience engaged and increasing the likelihood of them returning. You can also use AI-driven chatbots on your website or social media to answer common questions, guide users to relevant episodes, or collect feedback.

Crafting tales that captivate

One of the biggest challenges with podcasts is grabbing attention. This is where storytelling becomes crucial. A well-told story is what keeps people listening, engaged, and coming back for more. Storytelling is so critical to engagement that we've devoted an entire chapter to it — Chapter 9.



TIP

AI can craft stories for training podcasts by analyzing listener preferences and trends to generate compelling narratives that resonate with your audience. AI tools can also personalize content, adjusting tone, pacing, and themes to ensure maximum engagement and emotional impact.

Reviewing and editing content

Reviewing and editing your script is a critical step in crafting an engaging and professional podcast. Check out the AI tools mentioned earlier in this chapter to help you revise and rework your content in the following ways:

- » **Remove redundancies.** Eliminate repetitive or unnecessary content.
- » **Check flow.** Ensure your ideas transition logically and smoothly.
- » **Refine your language.** Simplify complex phrases and adjust the tone for your audience.
- » **Practice a read through.** Identify awkward phrasing and ensure your delivery is natural.
- » **Time your episode.** Confirm that the script fits within the desired podcast length.
- » **Polish for clarity.** Double-check your content for coherence and listener-friendly language.

Streamlining operations

After you get your podcast up and running, you can leverage AI tools to save time and improve production efficiency. For example, AI can aggregate content and

trends from various sources to inspire and inform your podcast topics, keeping your content relevant and timely. AI tools can help you manage your podcast production schedule and ensure that episodes are released consistently. And you can use AI tools like Hootsuite (<https://www.hootsuite.com/>) and Buffer (<https://buffer.com/>) to schedule social media posts, analyze engagement metrics, and even generate social media content based on your podcast episodes.

REPURPOSE EXISTING MATERIALS WITH AI

Podcasts are a brilliant way to breathe new life into existing content such as past training materials, blog posts, or webinars that are collecting dust. Why not repurpose them into engaging, binge-worthy podcast episodes? With AI-powered tools like Descript (<https://www.descript.com/>), Audacity (<https://plugins.audacityteam.org/>), Podcastle (<https://podcastle.ai/>), Alitu (<https://alitu.com/>), and others, turning old content into an immersive listening experience has never been easier. Here's how AI can help you transform your materials into a polished podcast:

- **Generate scripts.** Analyzing your content, crafting a conversational script, and adding engaging hooks.
- **Narrate your podcast.** Converting text into high-quality spoken audio that sounds natural and professional.
- **Segment topics.** Identifying themes within your content to create focused, bite-size episodes.
- **Generate interviews.** Coming up with insightful questions or prompts, making repurposed content feel fresh.
- **Transcribe and edit.** Allowing you to easily turn text into recordings with smooth transcription and editing.
- **Curate content.** Pulling together related materials to build themed episodes with added context.
- **Synthesize voices.** Maintaining a consistent brand voice with AI-generated narration that matches your tone.

With the right mix of AI tools and creativity, your existing content can become an exciting, must-listen-to podcast. Why start from scratch when you can remix, reimagine, and repurpose your training materials?

Promoting and Distributing Your Podcast

Effective distribution and promotion are essential for your podcast to reach the right learners. Choose a reliable podcast hosting platform that offers analytics, scalability, and strong integration with popular directories. In addition, make your podcast accessible on major platforms like Apple Podcasts (<https://podcasters.apple.com/>), Podbean (<https://www.podbean.com/>), Blubrry (<https://blubrry.com/>), Spotify (<https://www.spotify.com/>), and YouTube Music (<https://music.youtube.com/>).

Promote your podcast through a multichannel approach. Beyond social media and email newsletters, create a dedicated website or landing page for your podcast, featuring show notes, guest information, and easy access to episodes. Collaborate with influencers, other podcasters, or experts in your field for cross-promotion opportunities. Engage with online communities related to your topic (forums, LinkedIn groups, or niche Reddit threads) to introduce your podcast to interested listeners. Hosting live Q&A sessions, webinars, or even virtual meetups can also spark conversations and build relationships with your audience.



TIP

By using search engine optimization (SEO) strategies (such as repeating keywords and focusing on user intent) when you create your podcast titles, descriptions, and episode notes, you'll ensure your content is discoverable online. Track your analytics regularly to understand listener behavior and adjust your SEO strategies accordingly to continue reaching the largest possible audience within your target community.



TIP

You want to reach as many people as possible in your target audience by putting your podcast out there in the right places. Joining podcast networks or working with ad agencies that connect podcasters with sponsors can be a game changer. Podcast networks already have relationships with brands that may be a perfect fit for your content, making it much easier to find sponsors. Plus, while networks expand your reach and get your podcast in front of more listeners, you can focus on creating amazing episodes.

Here's a list of podcast networks to consider:

- » **Midroll Media** (<https://www.crunchbase.com/organization/midroll-media-llc>): A prominent podcast advertising network that connects podcasters with major advertisers. Midroll offers a range of services, including ad sales, podcast production, and analytics.
- » **Radiotopia** (<https://www.radiotopia.fm/>): A podcast network known for its diverse range of independent shows, Radiotopia helps podcasters with

monetization and connecting with potential sponsors while maintaining a focus on creative, high-quality content.

- » **Spotify** (<https://open.spotify.com/>): Spotify not only hosts millions of podcasts but also offers advertising and sponsorship opportunities through its various shows.
- » **Wondery** (<https://wondery.com/>): Known for producing high-quality, narrative-driven podcasts, Wondery also operates as a podcast network that connects its shows with advertisers and sponsors.

MONETIZING YOUR PODCAST

Monetizing your podcast is like turning a vibrant gardening business into a thriving moneymaking marketplace. You want to sell the fruits of your labor without losing the essence of what makes your garden beautiful. Just as you'd invite local vendors to set up stalls that complement your flowers, you should seek sponsorships and advertising from companies that showcase their products in a way that enriches your listeners' experience, enhancing the overall appeal of your podcast while generating income.

AI can help you monetize your podcast in the following ways:

- **Targeting effective advertising:** AI can analyze listener demographics and behavior to help target ads more effectively. Platforms like Google Ads and Meta's Ads Manager use AI to optimize ad placements and reach the right audience.
- **Automatically inserting ads:** AI can automate the insertion of ads into your podcast episodes based on listener data and preferences, allowing for more relevant advertisements.
- **Tracking and optimizing affiliate marketing:** AI can track and analyze the performance of affiliate links, helping you understand which promotions are most effective so you can adjust your strategy accordingly.

Other strategies to draw advertisers and sponsors for your podcast include:

- **Creating a media kit:** Develop a professional media kit that includes audience statistics, listener demographics, and engagement metrics. Highlight your podcast's reach, listener loyalty, and the benefits of sponsoring your show.
- **Attending industry events:** Participate in industry conferences, trade shows, and networking events related to your podcast's niche. Building relationships with industry professionals can lead to sponsorship opportunities.

Knowing and Avoiding the Pitfalls of Podcasting

Podcasts have become a popular medium for sharing information and telling stories, but they come with their own set of pitfalls. Table 14–1 lists key challenges to consider and ways you can counter them.

TABLE 14-1 **Addressing Podcasting Pitfalls**

Pitfall	Countermeasure
Variability in sound quality	Invest in reliable equipment. Use audio-editing software. Record in a quiet area and use soundproofing equipment.
Oversaturation	Focus on a unique niche. Develop a distinct perspective or format. Build a strong brand identity and marketing strategy.
Lack of engagement	Use storytelling and real-life examples. Incorporate interviews and interactive elements. Vary the format to keep episodes fresh.
Limited metrics	Choose hosting platforms with detailed analytics. Gather feedback through social media. Conduct surveys to understand audience demographics.
Monetization challenges	Explore revenue streams like crowdfunding or merchandise sales. Build relationships with sponsors. Consider affiliate marketing.
Time commitment	Create a content calendar. Delegate tasks to team members. Record episodes in batches to save time.
Consistency issues	Set a realistic release schedule. Prerecord episodes during busy times. Communicate schedule changes to your audience.

Pitfall	Countermeasure
Audience retention	Solicit listener feedback to adapt content. Regularly introduce new segments or themes. Engage with your audience via social media.
Intellectual property rights	Use royalty-free music or licenses. Educate yourself on copyright laws. Create original content to mitigate risks.



TIP

AI can help podcasters overcome common challenges by cleaning up audio for consistent sound, suggesting fresh topics to stand out in a crowded market, and boosting engagement with listener prompts and pacing insights. It provides detailed analytics on audience behavior, streamlines production with automated transcripts and show notes, and supports monetization through ad matching and revenue insights. AI also helps retain listeners with personalized recommendations and protects intellectual property by flagging copyrighted material, making podcasting more efficient, engaging, and strategically guided.

IN THIS CHAPTER

- » Elevating your videos with AI
- » Choosing between an avatar or human host
- » Putting together your storyboard
- » Knowing when to use training videos
- » Hiring a videographer or creating videos with AI's help
- » Avoiding potential issues with video training

Chapter **15**

Supercharging Your Training Videos

The shift to video training skyrocketed during the COVID pandemic, and now with AI in the loop, training videos are more affordable, more scalable, and more personalized than ever. Even in this post-pandemic world, video training remains the MVP of virtual meetings and training sessions, keeping organizations connected no matter where people are. It offers the ultimate flexibility because learners can dive into content anytime, anywhere, and companies can scale their training and development (T&D) globally, reaching learners in every corner of the world.

Done right, training videos can turn dry, boring content into dynamic, visually captivating experiences that keep learners engaged. Skill-building and onboarding sessions stop feeling like a chore and start feeling like something informative and meaningful. With clear demonstrations and step-by-step instructions, training videos let learners revisit key lessons whenever they need. It's learning that fits right into today's fast-paced, flexible workplace.

Think about why YouTube is so insanely popular. It's the ultimate treasure trove of content, whether you're looking to pick up a new skill, spark your creativity, or just get lost in some entertainment. With millions of tutorials on everything from cooking and crafting to playing an instrument, you can watch at your own pace, anytime. And don't forget travel vlogs (video blogs), DIY projects, and just about anything else you can imagine. That's why video training, just like YouTube, is such a game-changer. It puts a world of learning at your fingertips, letting you master new skills, explore ideas, and grow — one video at a time.

In this chapter, you explore why training videos are a powerhouse for busy employees, how AI can be your trusted production assistant, how to craft an engaging storyboard, create avatars, use captions, and incorporate a variety of formats that keep learners hooked.

Weighing Your Options

Training videos aren't one-size-fits-all. Some are structured and formal, while others feel like someone is simply talking to you as they're going about their day.

Each of the training delivery methods in Table 15-1 brings its own unique flavor to workplace T&D — whether you're looking for structured lessons, casual conversations, or interactive adventures. So, take a look and discover which one will help you hit that next training milestone with flair.

TABLE 15-1 **A Quick Format Breakdown**

Format	Structure and Style	Purpose	Key Characteristics	Example
Videos	Structured, formal, scripted storytelling	Training, tutorials, product demos	Clear, concise step-by-step, instructional focus	A training video demonstrating how to use new software
Video podcasts	Free-flowing, conversational, relaxed	Engagement, community-building	Episodic, interactive, encourages feedback	A workplace wellness podcast with expert interviews
Computer-based training	Structured, interactive, process-driven	Digital learning, self-paced training	Self-paced modules, quizzes, adaptability, progress tracking	An onboarding program with interactive lessons and assessments
Vlogs	Personal, informal, unscripted	Sharing experiences, insights, and tips	Authentic, engaging, relatable storytelling	A team leader sharing project challenges and lessons learned

Making AI Your Coproducer

As your coproducer, AI can elevate your training videos by adding engaging animations, interactive quizzes, and real-time feedback, creating a personalized and memorable learning experience. It can transform training from a dull slog through an information swamp to an inspiring, energizing journey through a fertile field of ideas. Viewing an AI-enhanced training video can be like watching a movie where you're actively learning every step of the way.

With AI, content can be even more tailored to each learner. Interactive elements like quizzes and polls are seamlessly integrated into your videos, while pacing adjusts to meet individual needs. This transforms traditional training videos into dynamic learning experiences that not only hold learners' attention but also encourage active participation and improve knowledge retention. Plus, AI tools can help streamline production, enhance video quality, and create more engaging, accessible instructional content.



AI
SPOTLIGHT

So, grab your director's cap and clipboard and start scrolling through the following AI platforms and tools that can make video production much quicker and easier. AI came to the rescue on this one by generating the following lists.

Content creation and scripting:

- » **ChatGPT** (<https://chat.openai.com/>): Can generate scripts and brainstorm content ideas.
- » **Jasper** (<https://www.jasper.ai/>): Helps with content creation and copywriting.
- » **Copy.ai** (<https://www.copy.ai/>): Useful for generating marketing copy and instructional content.

Voice-overs and speech synthesis:

- » **Descript** (<https://www.descript.com/>): Offers AI-generated voice-overs and transcription services, with features for editing audio and video.
- » **WellSaid** (<https://www.wellsaid.io/>): Provides realistic AI-generated voice-overs for videos.
- » **Murf.ai** (<https://murf.ai/>): Produces AI-powered text-to-speech audio with customizable voices.

Video editing:

- » **Adobe Premiere with Adobe Sensei** (<https://www.adobe.com/products/premiere/ai-video-editing.html>): Uses AI for tasks like auto-reframing, color correction, and scene editing.
- » **Pictory** (<https://pictory.ai/>): Helps with video editing by summarizing and condensing content using AI.

Visual enhancement and animation:

- » **Lumen5** (<https://lumen5.com/>): Converts text into engaging videos with AI-driven automation.
- » **Animoto** (<https://animoto.com/>): Creates videos from photos and video clips with automated editing.
- » **Runway** (<https://runwayml.com/>): Offers tools for creating AI-generated visuals and effects.

Interactive elements:

- » **H5P** (<https://h5p.org/>): Creates interactive video content, quizzes, and other engaging elements.
- » **Kaltura** (<https://corp.kaltura.com/>): Provides tools for interactive video and learning experiences.

Accessibility:

- » **Rev AI** (<https://www.rev.ai/>): Makes videos more accessible with AI-driven transcription services and captions.
- » **Kapwing** (<https://www.kapwing.com/>): Offers tools for adding captions, translations, and accessibility features to videos.
- » **Sonix** (<https://sonix.ai/>): Enhances video accessibility with automated transcription, translation, and subtitling.

Feedback and analysis:

- » **Vidyard** (<https://www.vidyard.com/>): Features analytics and insights into video engagement and viewer behavior.

- » **Wistia** (<https://wistia.com/>): Provides video hosting and management with detailed analytics and engagement tracking.
- » **YouTube Analytics** (<https://developers.google.com/youtube/analytics>): Analyzes video performance and viewer interaction on YouTube.

Virtual instructors and avatars:

- » **Synthesia** (<https://www.synthesia.io/>): Creates AI-generated avatars and virtual instructors for videos.
- » **Wondershare DemoCreator** (<https://democreator.wondershare.com/>): Generates video content with virtual presenters.

Spicing Up Your Videos with Avatars

Imagine a training video where your guide isn't just a voice-over or a human instructor but rather an AI-powered *avatar* with the wisdom of a seasoned professor, the charisma of a game show host, and the patience of a saint. Picture an avatar so engaging that it draws learners in, keeps them entertained, and ensures that they absorb every piece of information.



TIP

Avatars can range from highly realistic human-like figures to stylized cartoons, 3D characters, animals, robots, or completely abstract shapes — essentially anything that represents a person or concept visually.

You may already be familiar with flight attendant avatars (see Figure 15-1) that deliver safety instructions to passengers before takeoff. Now, with AI tools like Synthesia (<https://www.synthesia.io/>), you can create an expressive AI avatar to host your training videos, transforming routine sessions into engaging, dynamic experiences.

But how do you decide whether to use an avatar or a human trainer? It all depends on the goals of your session, the learners (as you explore in Chapter 8), and the experience you want to create. See Table 15-2 for suggestions.

FIGURE 15-1:
Your friendly
flight attendant
avatar.



M.Style/Adobe Stock Photos

TABLE 15-2 **Choosing Between an Avatar or Human Trainer**

Training Type	When Avatars Are Appropriate	When Humans Are Appropriate
Onboarding	Avatars can guide learners through a series of interactive modules, FAQs, and standard procedures.	When personal connections and emotional engagement are needed to help learners feel welcome.
Compliance training	Avatars can lead repetitive, rules-based courses, such as compliance, where consistency is key.	When discussing complex or sensitive issues that may require empathy or real-world examples.
Technical skills	Avatars can provide step-by-step walkthroughs of systems and software.	When troubleshooting requires hands-on experience, personal coaching, or complex problem-solving.
Sales training	Avatars can simulate role-playing scenarios to practice scripts and product knowledge.	When dynamic, high-stakes interactions with clients are needed, requiring human intuition and adaptability.
Leadership training	Avatars can provide theoretical knowledge, leadership styles, and quizzes.	When personal coaching, mentorship, and emotional intelligence are needed to develop leadership skills.
Soft skills (communication, teamwork, and so on)	Avatars can act in scenarios to practice specific behaviors and responses.	When discussing real-life team dynamics, emotional understanding, or conflict resolution, human facilitators excel.
Customer service training	Avatars can simulate common customer interactions, allowing practice in a low-risk environment.	When dealing with emotionally charged customer service situations or complex customer needs.
Product knowledge	Avatars can give a comprehensive overview and answer FAQs about products.	When discussing the impact of products on customers or handling detailed, niche product inquiries.

Training Type	When Avatars Are Appropriate	When Humans Are Appropriate
Diversity and inclusion	Avatars can present information and scenarios around bias, diversity, and inclusion.	When discussing sensitive personal experiences, fostering empathy and understanding in learners.
Health and safety	Avatars can provide repetitive, procedural safety instructions and tests.	When hands-on, in-person demonstrations of safety equipment or environments are required.
Management training	Avatars can demonstrate basic management principles and simulations.	When discussing real-life scenarios requiring conflict resolution, decision-making, or emotional intelligence.

Adding Captions to Boost Clarity

If streaming services have taught us anything, it's that captions aren't just helpful; they're secret weapons that keep viewers from muttering at the screen, *Wait what'd they just say?* With fast dialogue, mumbly actors, and soundtracks that sometimes drown out actual words, people (young and old) turn on captions while streaming.

Savvy content developers should take a cue from that. Include the option of turning captions on in all your training videos. This will help learners follow along more easily, stay focused, and catch key details they might otherwise miss. Captions also make your videos more accessible for learners with hearing loss, newcomers building their English skills, and visual learners who absorb content best when they can read it as well as hear it. By giving learners this option, you let everyone engage in the way they learn best.



WARNING

While captions are incredibly useful, let's be honest, technology doesn't always have the best listening skills, and the results can be downright embarrassing. Here's an example from my goldmine of stories: I serve on the Patient Advisory Council for my healthcare group. I, along with many other members of the Council, participate online. Because the audio sometimes sounds like it's traveling through a tin can, I turn on the captions. During one of the meetings a very dedicated doctor said, *We have to make sure our patients stay on track*. What appeared on the screen was, *We have to make sure our patients stay on crack*.

Moments like this are a reminder that captions are powerful, but they need human oversight to make sure the on-screen wording is what was intended. Diligently check the wording before releasing any video because an obvious blunder staring at learners can distract them from a valuable learning experience.



TIP

In most video conferencing platforms (Zoom, Teams, Webex, etc.), captions are like invisible sidekicks that learners have the option of turning on. But how will you know if any bloopers appear? Turn captions on for your viewing so you can spot (and heroically correct) any caption blunders before they become the next viral moment. Learn more about making the most of virtual instructor-led training (VILT) in Chapter 12. It's the tune-up your live sessions didn't know they needed.

Crafting a Storyboard

Think of your storyboard as your training video's playbook. It's your visual outline — a step-by-step guide that maps out scenes, dialogue, visuals, and key messages before filming begins. It helps you see the big picture, spot gaps, and make sure the story flows naturally from start to finish. It's what keeps everyone in sync once production gets underway.



REMEMBER

A storyboard doesn't have to be fancy. The goal is to organize your ideas in a way that makes sense to you and your team. A little planning goes a long way toward creating a polished, engaging final product. For more ideas on bringing your visuals to life with a storyboard, check out Chapter 9.

There are plenty of ways to storyboard your video, from quick doodles to digital designs. Here are a few to consider:

- » **Traditional:** The classic version — a series of hand-drawn generated panels showing each scene or camera shot so you can see how the story unfolds.
- » **Digital:** Created with online tools or apps, making it easy to edit, share, and update as your ideas evolve.
- » **Thumbnail:** A quick sketch version that captures the flow and pacing without worrying about details.
- » **Photo:** Uses real images or screenshots to show what each scene will look like.
- » **Text-based:** Focuses on short written descriptions of visuals, dialogue, and timing — great for people who think in words, not pictures.
- » **Interactive:** Adds clickable elements, animations, or branching paths — handy if your training video includes AI or learner choices.
- » **Sticky notes:** Fast, flexible, and fun. Just jot scenes on sticky notes and move them around until your story clicks into place.



TIP

AI can help to generate scene ideas, suggest visuals or dialogue based on your script, and even build a rough storyboard automatically from your ideas. Tools such as Storyboardhero (<https://storyboardhero.ai/>) and Katalist.ai (<https://www.katalist.ai/>) can match images to narration, recommend pacing, or spot gaps in your storyline.

Delving into the Spectrum of Training Videos

Videos can be used for a wide spectrum of workplace training, from compliance and safety to skill building and product knowledge. And that's where AI can be helpful. AI tools can fine-tune your training videos to fit individual learners' needs, making sure they're not just relevant but actually engaging. Whether you're reinforcing must-know policies or helping someone level up their skills, AI can adapt your content in real time, keeping learning fresh and effective.

The following sections break down the various types of training for which videos work well and how AI can assist you.

Instructional videos

Instructional training videos are a versatile and impactful way to explain processes and products. By leveraging the following advantages of video training, your organization can enhance their instructional T&D programs, ensuring that employees are equipped with the knowledge and skills needed to excel in their jobs:

- » Captivate learners with vibrant visuals and clear narratives to simplify complex topics.
- » Allow self-paced learning with Pause, Rewind, and Replay options for flexible viewing and absorption.
- » Deliver consistent messaging to ensure uniform, high-quality instruction for all learners.
- » Reduce costs by minimizing travel and materials and enabling easy content updates.
- » Incorporate interactive elements like quizzes and *branching scenarios* (in which learners make choices that change the outcome) to boost engagement.

- » Track learner engagement with analytics to refine and improve training programs.
- » Provide accessibility and inclusivity features such as multilingual captions and voice-overs.



TIP

Consider using AI as a production assistant for your training videos. It can help you generate scripts, create visuals, enhance audio, and even edit content. You save time, and your videos are more polished and engaging.

Compliance training videos

Compliance training videos help learners understand legal and company rules on topics like data protection, workplace safety, and discrimination and harassment. They ensure consistent messaging, engage employees with visuals and interactive content, and reach large teams efficiently. Videos also provide strong documentation for audits and, despite their up-front costs, are often more cost-effective than in-person training.

For best results, keep your video content clear, concise, interactive, and regularly updated. Ready-made compliance videos are widely available from specialized providers, but many organizations create custom content to address specific policies.



TIP

AI can help when you're creating compliance training videos by tailoring content to roles and performance, using chatbots and simulations to encourage engagement, and adapting materials based on learners' progress. AI-driven analytics assess the training's effectiveness, streamline content creation, and aid compliance monitoring. Scalable AI platforms ensure consistent, personalized training across locations.

Safety training videos

Safety videos are a great way to keep everyone in the loop about the best practices for avoiding harm and protecting themselves at work. They can cover everything from proper equipment use to emergency procedures, ensuring that employees know what to do to prevent accidents and handle emergency situations.

Think of your videos as a friendly guide to workplace safety. Good safety videos don't have to be dry, boring lectures — they can incorporate engaging visuals, real-life scenarios, and interactive elements to make the content memorable. The goal is to ensure everyone understands safety protocols and can easily recall them when needed.

Safety videos are very convenient. Employees can watch them anytime, anywhere, which is especially handy for companies with people working in different locations or shifts. They also serve as a handy reference if someone needs a quick refresher.



TIP

AI can be transformative when it comes to creating safety training videos by providing the following features:

- » **Accessibility:** Translating content and generating captions for diverse learners.
- » **Automated reporting:** Tracking progress, completion rates, and areas for improvement.
- » **Continuous updating:** Using feedback to refine training and enhance workplace safety.
- » **Immersive learning:** Creating immersive, real-world safety simulations using virtual reality (VR) and augmented reality (AR).
- » **Interactive content:** Creating quizzes, polls, and other real-time feedback opportunities for better engagement.
- » **Personalized learning:** Adapting training to individual needs based on learning styles and performance.
- » **Predictive analytics:** Identifying risks by analyzing safety data to prevent incidents.
- » **Real-time interaction:** Offering instant answers and guidance on safety procedures with chatbots and virtual assistants.



REMEMBER

Incorporating AI into safety training videos can make the T&D process more engaging, personalized, and effective, ultimately leading to a safer workplace. Here are some examples:

- » **Hazardous material handling:** Simulating chemical spills or gas leaks so employees can practice proper safety protocols without real danger.
- » **Equipment operation:** Letting learners practice using heavy machinery, forklifts, or other equipment in a virtual environment before handling it physically.
- » **Emergency medical response:** Training staff on CPR or first-aid scenarios in a realistic, risk-free simulation.
- » **Slip, trip, and fall scenarios:** Navigating wet floors, cluttered spaces, or uneven surfaces to learn how to avoid accidents.

» **Workplace violence or active shooter response:** Simulating high-stress situations safely to teach proper procedures and decision-making under pressure.

Product training videos

Product training videos are a powerful tool for showcasing your offerings and helping sales representatives understand their value. They bring your products to life by demonstrating their features, benefits, and real-world applications in a way that static images and text simply can't match. Whether it's a how-to guide, a feature highlight, or a customer testimonial, a product training video can engage learners with dynamic visuals and clear explanations, making complex information easier to grasp.

By way of example, AI can help create a product development video for a commercial coffee machine by generating a script, suggesting visuals of prototypes, and producing voice-overs. It can show each stage of design, testing, and production, helping your team quickly understand how the machine was developed for efficiency and business use — brewing up success every step of the way.



TIP

AI personalizes product training videos, tailoring content to learners' roles and experience levels while eliminating unnecessary details. Interactive features like quizzes, *hotspots* (clickable areas that provide additional information), and simulations boost engagement, while AI chatbots provide instant support. Predictive insights refine training by identifying challenges, and AR can enhance hands-on exploration. AI-powered translation, captioning, and sign language interpretation improve accessibility. Automated tracking measures learners' progress, and AI continuously updates content based on feedback. This streamlines learning, enhances comprehension, and drives employee success.

Soft skills training videos

Training videos can be a powerful tool for teaching and reinforcing soft skills. Given their interactive visual nature, they're ideal for conveying complex concepts like communication, emotional intelligence, and problem-solving. Here's how training videos enhanced by AI can address soft skills:

» **Communication and listening:** Demonstrating real-life scenarios, offering personalized feedback on tone, clarity, and active listening through interactive exercises.

- » **Conflict resolution:** Pushing learners toward innovative solutions and effective conflict management.
- » **Decision-making and cultural competency:** Analyzing high-stakes decisions and responses to cultural contexts, enhancing inclusivity and sensitivity.
- » **Emotional intelligence and leadership:** Creating role-play scenarios that test emotional responses and leadership decisions, with AI offering insights for improvement.
- » **Negotiation and persuasion:** Assessing negotiation tactics and persuasive techniques, refining learners' strategies.
- » **Problem-solving and critical thinking:** Evaluating reasoning in case studies and complex problems, suggesting better approaches.
- » **Teamwork and adaptability:** Adjusting team-based challenges and dynamic simulations to test collaboration and real-time adaptability.
- » **Time management and networking:** Creating time-sensitive challenges and role-play exercises help learners prioritize tasks and build relationships.



TIP

By integrating AI with soft skills training videos, you can create a personalized and dynamic learning environment. Learners not only watch videos but actively participate, receiving feedback and adjusting their skills in real time while navigating a variety of soft skills scenarios in a safe, controlled setting. This approach can turn learning into an engaging, high-stakes experience where every lesson feels rewarding and impactful.

Hard skills training videos

Hard skills training videos play a pivotal role in equipping employees with the technical abilities and specialized knowledge required for their specific role. These videos are essential for fostering proficiency in tasks that are critical to job performance. With the integration of AI, hard skills training has become more personalized and efficient, allowing for a tailored experience based on each learner's needs. Some key examples of hard skills training include:

- » **Customer relationship management (CRM):** Understanding and using CRM platforms like Salesforce to manage client relationships and sales processes.
- » **Cybersecurity:** Protecting organizational data and digital infrastructure from cyber threats like hacking and phishing.
- » **Data analysis:** Developing the ability to collect, interpret, and make sense of large sets of data, enabling informed decision-making.

- » **Engineering skills:** Designing and troubleshooting complex mechanical or electrical systems.
- » **Financial literacy:** Understanding accounting, budgeting, and financial modeling.
- » **Project management:** Learning to manage teams and projects efficiently, ensuring deadlines, budgets, and quality standards are met.
- » **Supply chain management:** Understanding logistics, inventory control, and the supply chain process to ensure efficient movement of goods and services.
- » **Technical proficiency:** Mastering software, programming languages, or other tools specific to a particular job.



TIP

AI-powered platforms can assess a learner's skill level and tailor video content to address specific needs, identifying knowledge gaps and providing targeted lessons for mastery. Video simulations, such as virtual labs for engineers or coding challenges for software developers, offer hands-on practice in a risk-free environment, while real-time feedback enhances efficiency. As technology advances, AI-driven hard skills video training is becoming increasingly immersive and personalized, ensuring employees are equipped with the expertise needed to excel in their role.

Bringing In the Pros or Doing It Yourself

If your training video is a quick one-off update or intended for internal viewing only, you may opt to do it yourself (DIY). But if it's a key piece of training that will be viewed widely throughout a large organization or used externally, investing in a professional videographer can make all the difference.



TIP

Here are a few signs that it's time to bring in the experts:

- » **Your visuals are detailed and complex:** If your training involves detailed demonstrations (think hands-on processes, safety protocols, or product assembly), and you need clear, high-quality footage, a pro will know how to capture the right angles and lighting to make sure every detail is visible.
- » **The audio is key:** When you don't want viewers struggling to hear key instructions, a videographer can ensure that your video's sound is crisp and clear.
- » **The editing and graphics are complicated:** If you need to turn raw footage into a polished, engaging learning experience, a pro can add animation,

avatars, callouts, and smooth transitions that make content easier to follow (and more fun to watch).

- » **Brand identity is the focus:** A training video represents your company for the long haul, so it should look and feel professional. A well-produced video builds your credibility and enhances your image.
- » **Time and efficiency are a concern:** When creating training videos isn't part of your expertise, a professional can streamline the process, so you get a high-quality video faster and with less hassle.

Creating your own masterwork

In addition to PowerPoint, which you've probably used, other AI-enhanced tools can turn slides into videos, offering more dynamic and engaging DIY options. These tools often feature advanced capabilities such as voice-overs, automated animation, and interactive elements, elevating your content to a whole new level. Some even allow you to customize avatars, giving your training videos a personalized touch.

The following AI platforms and tools offer similar capabilities and can provide invaluable help with your DIY training videos:

- » Animoto (<https://animoto.com/>)
- » Canva (<https://www.canva.com/>)
- » Descript (<https://www.descript.com>)
- » Prezi (<https://prezi.com/>)
- » Synthesia (<https://www.synthesia.io/>)
- » Veed (<https://www.veed.io/>)

You can easily find videographers online, but it's always a smart move to get recommendations from colleagues or industry contacts — the ones who've been there, done that. Once you've narrowed your options down to a few, check out their testimonials to see what others have said about working with them. Next, take a good look at their portfolio (for example, online training clips) to make sure their style matches what you're going for. When you have a short list, set up a meeting or call them to chat about your project and get a feel for how they approach things. Don't forget to compare quotes to make sure you're getting the best value for your budget.



REMEMBER

Many videographers now use AI tools (color correction, auto-captioning, motion graphics), so ask about that when hiring.

Here are some things to hammer out once you've made a decision but before you sign on the dotted line:

- » **Define your goals and expectations:** Clarify the video's purpose, style, tone, and length.
- » **Provide a brief:** Share your script, key points, and visual preferences early in the process.
- » **Agree on a budget and timeline:** Set expectations for cost and delivery deadlines.
- » **Collaborate creatively:** Discuss shot composition, lighting, and visuals.
- » **Trust their expertise:** Rely on their technical skills for camera work and editing.
- » **Be open to revisions:** Give clear, specific feedback during the editing process.
- » **Maintain direct communication:** Keep in touch to ensure the project stays on track.
- » **Test the final product:** Review the video to confirm that it meets your vision before signing off on it.



REMEMBER

When you work with an outside videographer, this is *your* video. You have the final say on the message, tone, and look. Not agreeing to all their suggestions doesn't mean you're micromanaging. It just ensures the video truly reflects your vision and speaks to your learners the way you want.

RAKING IN THE REWARDS

Posting your training videos on YouTube has huge advantages. Because YouTube is the second-largest search engine, your videos may show up in Google searches, making them easier to find. And if your video takes off, you can earn money through the YouTube Partner Program.

But it's not just about reach and revenue. YouTube is a hub for learning, with billions of views every day. It's also a great way to engage with your learners, get feedback, and build a community around your training.

YouTube isn't your only option for sharing your videos. In addition to posting them on your own website, you can share and even monetize your training videos on these platforms:

- **LinkedIn Learning** (<https://learning.linkedin.com/>): If your training focuses on professional development, this is an ideal place to establish credibility and reach business professionals.
- **Skillshare** (<https://www.skillshare.com/>): This subscription-based platform allows instructors to earn revenue based on watch time. It's great for creative and business-related training.
- **Udemy** (<https://www.udemy.com/>): You can sell full training courses on this massive online learning marketplace. Unlike YouTube, Udemy is designed for structured learning, and you earn money from course purchases.
- **Vimeo** (<https://vimeo.com/>): A professional, ad-free alternative with paid membership options, Vimeo offers tools for selling your training videos directly to viewers through rentals, subscriptions, or pay-per-view.

Each platform has its own strengths, so choosing the right one depends on your goal, whether it's maximizing your reach, building a community, or creating a steady income stream. Want to upload your video? Just search "how to upload a video to [the platform name]," and you'll find plenty of easy guides to walk you through the process.

Knowing and Avoiding the Pitfalls of Training Videos

Videos have become a popular medium for workplace T&D, but it's wise to remember that the sun does cast some shadows. In Table 15-3, you can review a few of the key challenges of video training and ways to help counter them.



TIP

AI can help short-circuit many common video pitfalls by personalizing the experience, adapting content in real time, and keeping learning active and inclusive. It can enhance clarity with auto-generated summaries, adjust pacing to match the learner, ensure accessibility with captions and translations, and even detect when engagement drops — offering prompts or interactive elements to re-engage attention. In short, AI helps videos stay clear, current, and responsive to each learner's needs.

TABLE 15-3

Video Training Pitfalls and Countermeasures

Pitfall	Countermeasure
Poor video quality or unclear messaging	Invest in quality production equipment and editing software. Use clear scripts and engaging visuals.
Passive learning with no engagement	Add quizzes, polls, or branching scenarios to encourage active participation.
Videos not catering to different learning styles	Switch up formats (videos, hands-on activities, discussions) to appeal to all learners.
Accessibility barriers like video playback issues	Optimize videos for different devices and speeds. Provide alternative formats (for example, downloadable content).
Too much information too quickly	Break content into shorter segments with summaries and visuals to aid comprehension.
Outdated materials	Use a modular content design for easy updates to specific sections.
No immediate feedback or clarification	Include reflection prompts or questions. Provide follow-up sessions or forums for clarification.
Learners become desensitized to repetitive video format	Refresh video style and format regularly. Vary speakers and case studies.
Lack of cultural sensitivity in videos, alienating diverse audiences	Ensure content is culturally relevant for effective training.

5

Entering Dynamic Dimensions Aided by AI

IN THIS PART . . .

Explore immersive learning with virtual reality.

Transform T&D through augmented reality.

Demystify blockchain technology and its applications in learning.

- » Enhancing VR with AI
- » Understanding how businesses use VR to train workers
- » Acquiring the tech needed for VR training
- » Getting ahead of potential pitfalls

Chapter **16**

Entering the Immersive World of Virtual Reality

Think of the virtual reality (VR) experience like watching a 3D movie in a theater. You're wearing special glasses. The sights, sounds, and sensations take over your attention, pulling you into a world that's completely separate from reality. You're immersed in a cinematic experience, with no distractions (except maybe the person next to you munching on popcorn). But the moment the movie ends, you take off the glasses and return to the real world, seeing and hearing everything around you again. The film captures your focus for its duration, but it's only a temporary escape. That's what VR is like. And thanks to AI, what used to be expensive, clunky, and out of reach is now faster to build, easier to scale, and accessible to more organizations than ever before.

This chapter is your ticket to exploring how VR is reshaping the future of training and development (T&D) in much the same way. You dive into the thrill of virtual worlds, uncover the latest breakthroughs driving industries forward, and ponder the profound ways VR is blurring the lines between what's real and what's imagined with the help of AI.

LOOKING BACK

Long before we strapped on VR headsets, there were simpler ways of stepping into other worlds. Remember those View Masters from childhood — the little plastic gadgets where we popped in a circular reel and clicked through colorful pictures? It felt like we were peeking into a tiny magical world. And then came the 3D movies with the red-and-blue glasses. Images jumped off the screen like they were trying to high-five us! We put on those glasses and *bam* — a glimpse of opening the door to a new dimension.

Those simple tools were actually VR trailblazers! They gave us a taste of what it's like to escape our everyday flat screens and jump into something more real, more immersive. So, the next time you pop on a VR headset, give a little nod to its humble ancestors.

Unleashing VR's Power with AI

VR's journey has come a long way. It's been around since the 1960s, starting with gadgets like the *Sensorama*, a machine that created VR-like experiences. Clunky headsets introduced in the 1980s and '90s offered a slight improvement in quality. Back then, VR was like the early days of computer-generated imagery (CGI) in movies. The images were cool to look at but obviously fake, with stiff, preprogrammed interactions. You could drop into a digital world, but that world was about as dynamic as a cardboard movie backdrop. Then — along came AI!

With AI, VR got a serious upgrade. Just like CGI evolved from the blocky effects of the groundbreaking images in *Tron* to the mind-blowing realism of *Avatar*, AI has transformed VR into something far more immersive and highly intelligent. Now, virtual worlds don't just exist; they respond, adapt, and even learn from your actions. AI powers lifelike simulations, customizes interactive experiences, and generates realistic environments on the fly.

There are two primary types of VR: Non-immersive and immersive. With non-immersive VR, you can explore virtual environments from the comfort of your screen — whether it's playing a game or taking a digital tour such as an architect “walking” you through your dream home. But if you're looking to truly escape reality, fully immersive VR (the focus of this chapter) is the way to go. Slip on a headset, and suddenly you're not just looking at a screen, you're living in another world. Whether you're fighting off zombies, walking on Mars, or learning a new skill, it's as close as you can get to experience a whole new reality.

ChatGPT (<https://www.chatgpt.com>), DeepMind (<https://deepmind.google/>), IBM Watson (<https://www.ibm.com/watson>) are a few AI tools that can play an

important role in VR applications acting as interactive conversational agents or virtual assistants. In Table 16–1 you’re introduced to some key roles AI tools can play in creating VR:

TABLE 16-1 **Roles AI Can Play in VR**

Category	Application
Interactive non-player characters (NPCs)	<p>Dynamic dialogue: Engage users with natural conversations, answer questions, and provide context.</p> <p>Storytelling and quests: Drive narratives with questions, branching dialogue, and adaptive storylines.</p>
Virtual assistants and guides	<p>Onboarding and navigation: Help users navigate VR spaces, useful for training and education.</p> <p>Help and troubleshooting: Provide assistance with controls, mechanics, or troubleshooting.</p>
Virtual tutors and coaches	<p>Education: Offer real-time explanations and assist with practice (for example, language learning).</p> <p>Skill-building: Support professional training (for example, in surgery, engineering, sports) with feedback and guidance.</p>
Personalized experiences	<p>Emotion recognition and response: Adapt interactions based on user emotions with feedback and guidance.</p> <p>Customization: Assist users in personalizing VR environments and settings.</p>
Communication	<p>Facilitating group interactions: Moderate discussions, group activities, and collaboration.</p> <p>Role-playing: Enable immersive learning through responsive NPCs in various scenarios.</p>
Therapeutic and mental health support	<p>Virtual therapy: Provide conversational support for stress management and mindfulness.</p> <p>Cognitive behavioral therapy: Guide users through exercises to improve their mental health.</p>
Content creation	<p>Content generation: Create dynamic content, including quests, dialogue, and lore.</p> <p>Creative collaboration: Brainstorm storylines, characters, and world-building.</p>
Challenges and considerations	<p>Integration: Ensure seamless AI interaction with natural language processing and voice input.</p> <p>Ethical concerns: Address privacy, security, and ethical AI behavior.</p> <p>Real-time performance: Maintain responsiveness for immersive experiences.</p>

By leveraging advanced algorithms and machine learning, AI can address many of the challenges associated with VR training in the following ways:

- » **Adaptive content:** AI personalizes experiences by analyzing user behavior and adjusting challenges, environments, and interactions in real time.
- » **Behavior modeling:** It predicts user behavior, enhancing NPC realism and user experiences.
- » **Content creation:** AI streamlines VR development by automating asset generation and creative tasks.
- » **Enhanced realism:** Machine learning generates lifelike animation, behavior, and responses for a more immersive VR experience.
- » **Gesture recognition:** Vision-based tracking improves precision and responsiveness in VR interactions.
- » **Optimized performance:** Dynamic graphical adjustments ensure smooth VR experiences, even on lower-end devices.
- » **Training simulations:** AI enables realistic interactive scenarios for healthcare, aviation, and military training, for example.

VR VERSUS AR

Think of VR like stepping into a video game. You put on a special headset, and — *poof!* — you're in a whole new world, completely surrounded by digital sights and sounds. The real world disappears, and you're off on an adventure in a place that exists only in the virtual realm.

Augmented reality (AR) is more like adding magic to your everyday world (as you discover in Chapter 17). Imagine walking through your living room, and suddenly, an expensive gold object appears on your coffee table. You're still in your real space, but with AR, digital images, like holograms or animations, appear whether you see them through a screen, with special glasses, or projected into the air.

In essence VR takes you to another world, while AR brings the digital world to you. The following table indicates when each may be appropriate for T&D.

Factors	VR	AR
Immersion level	Ideal for complete immersion, simulating real-world scenarios in full detail.	Enhances real-world environments with additional digital information.
Interaction with environment	Works better when training involves entirely virtual environments or simulated experiences.	More appropriate for direct interaction with the real world (for example, equipment or workspaces) by overlaying information onto real-world objects.
Cost and equipment	Requires specialized hardware (VR headset, for example), which can be more expensive.	Can often be used with smartphones or tablets, making it more cost-effective.
Learning objectives	Ideal for tasks requiring full focus or where risk is involved (such as operating machinery or learning complex procedures).	Better for supporting on-the-job learning with real-time guidance or context.

Here's a good example: Mass General Brigham, a well-known teaching hospital in Boston, uses VR and AR for various training applications. They use AR to train new nurses on lifesaving procedures by overlaying instructional guides on crash carts during practice in real time. They use VR for anatomy education and pre-surgical planning, allowing medical students and professionals to interact with 3D models and practice procedures in a simulated environment.

Reshaping Business Landscapes

VR has found applications across a wide range of industries, transforming how businesses operate, train, and engage. (Notice how, in Figures 16-1 through 16-4, the person using VR is fully immersed in the virtual world. By contrast, the figures in Chapter 17 showing people using augmented reality (AR) illustrate how the real world remains visible, with digital or holographic images appearing.) Here's a sampling of how various industries are leveraging VR technology to create virtual worlds for T&D:

» **Aerospace and aviation:** Using virtual prototyping and design review, engineers can visualize aircraft components in a virtual environment, as you see in Figure 16-1. VR can also be used to provide realistic flight simulations for pilot training, allowing trainees to practice maneuvers and emergency procedures without the risks of actually flying.

- » **Automotive:** Using VR for virtual prototyping of vehicle designs allows for detailed visualization and testing before physical models are built. In Figure 16-2, you can see an example of VR training simulating engine maintenance.
- » **Defense and military:** Realistic combat training simulations using VR allow soldiers to experience and practice various tactical scenarios, as in Figure 16-3. Detailed immersive simulations of operational environments can assist with strategic planning and military exercises.

FIGURE 16-1:
Aerospace
engineer using
VR to examine
a plane.



Ahsan/Adobe Stock Photos

FIGURE 16-2:
VR for training
on engine
maintenance.



Sascha/Adobe Stock Photos

FIGURE 16-3:
Person in the
military using VR
for strategic
planning.



Curioso.Photography/Adobe Stock Photos

- » **Education:** Educational experiences are enhanced when students can visualize complex subjects, such as historical events or scientific processes, in an engaging and interactive manner. VR allows students to participate in immersive educational experiences regardless of their location.
- » **Entertainment and gaming:** Highly immersive VR gaming platforms allow players to interact with virtual worlds and characters in a way traditional gaming cannot match. Virtual concerts, sports events, and other entertainment experiences offer learners a unique way to engage.
- » **Manufacturing:** Using VR for training in manufacturing processes and safety procedures helps workers practice tasks and emergency responses in a controlled environment.
- » **Medicine and healthcare:** VR training allows medical professionals to simulate emergency responses and patient interactions, among other tasks. In Figure 16-4, a medical student practices surgical procedures in a risk-free simulated environment.
- » **Real estate:** VR apps can offer virtual tours of properties, allowing potential buyers or renters to explore homes and buildings from anywhere.
- » **Sports and fitness:** VR can help professional athletes train by simulating game scenarios and providing feedback on their performance and technique. Using VR for interactive workouts and training routines makes these exercises more engaging and motivating.

» **Tourism and travel:** Offering virtual tours of destinations helps travelers explore and choose vacation spots. Providing previews of travel experiences, such as hotel rooms or attractions, allows travelers to make informed decisions. VR also helps people who are unable to travel (due to cost or physical ability) experience destinations virtually.



FIGURE 16-4:
Medical student
using VR to
practice surgery.

M.Style/Adobe Stock Photos

Exploring the Depth of VR

In this section you dive into the heart of VR's deeply immersive experience, where everything feels tangible and real within the virtual world. This immersion isn't just about fancy headsets and other equipment. It's about how VR completely engages the senses and blurs the line between the digital and physical world.

Training and educating

VR has become a valuable tool for training and education across a range of industries. In fields such as healthcare, aviation, and the military, VR simulations provide a realistic yet safe environment for users to practice and hone their skills. For instance, medical professionals can perform virtual surgeries, pilots can practice flight maneuvers, and soldiers can engage in tactical simulations, all without the risks associated with real-world training. This approach allows for repeated practice and skill refinement without the associated physical or logistical constraints.

Enhancing learning

VR offers a dynamic and interactive way to enhance learning. By visualizing complex concepts or historical events in a virtual space, students can gain a deeper understanding of the material. For example, VR can bring ancient civilizations to life or simulate scientific phenomena, making abstract ideas tangible and engaging. This interactive approach not only captures students' attention but also aids in better retention and comprehension of educational content.

Providing therapeutic benefits

VR is becoming a valuable tool in mental health treatment, aiding in exposure therapy for phobias, PTSD, and anxiety by allowing patients to confront their fears in a controlled virtual environment. This approach complements traditional therapy by providing a safe, gradual method for overcoming anxieties. Additionally, VR can enhance therapist training through immersive simulations, allowing professionals to refine their techniques and build confidence before working with patients. Integrating VR into both treatment and training is improving therapeutic effectiveness and patient outcomes.

Prototyping

In design and engineering, VR facilitates virtual prototyping, allowing creators to visualize and test their concepts in a digital space before they're physically produced. This capability significantly reduces the costs and time associated with creating physical prototypes. Designers and engineers can test out their designs quickly, assess functionality, and make necessary adjustments in a virtual environment, streamlining the development process and enhancing innovation.

Gaming and entertainment

VR revolutionizes entertainment and gaming by providing an exceptionally immersive experience. VR gaming enables players to interact with virtual worlds in a highly realistic manner, offering a level of immersion that traditional gaming setups cannot match. Players can explore expansive virtual environments, interact with dynamic elements, and experience game scenarios from a first-person perspective, which enhances the overall enjoyment and engagement of the gaming experience.

Collaborating remotely

VR facilitates remote collaboration by enabling teams to meet and work together in virtual spaces, regardless of their physical location. This virtual workspace

allows for real-time interaction, brainstorming, and problem-solving, enhancing communication and productivity among remote team members. By simulating a shared physical environment, VR can bridge the gap created by distance and make remote work more effective and cohesive.

Finding Vendors

Whether you're looking for VR hardware, software, or services to use for your video, here's a quick reference guide. AI can help you learn more about each option:

Marketplaces and directories:

- » Focus VR: news, reviews, vendor directory
- » Gartner Reports: vendor lists and analysis
- » Road to VR: industry news and insights

Trade shows and conferences:

- » SIGGRAPH: graphics & VR techniques
- » CES: VR hardware & software showcases
- » Immerse Global Summit: immersive tech networking (*rebranded after 2022*)

Online platforms:

- » Alibaba: manufacturers, bulk/custom solutions
- » Newegg: independent hardware site

VR development platforms:

- » Unity Asset Store: tools, assets, plug-ins
- » Unreal Engine Marketplace: VR resources for Unreal Engine

Tech reviews and blogs:

- » TechCrunch: VR startups & companies
- » Wired: emerging VR trends

TAKING A QUANTUM LEAP

Picture yourself coaching a sports team with the help of a traditional computer. You can review each player's performance one game at a time by watching footage, offering feedback, and then waiting for the next match to see if anything stuck. Progress happens, but it's slow.

Now, imagine stepping into the next era with *quantum computing* (QC), which uses the powerful rules of quantum physics to handle massive amounts of information at once, way beyond what regular computers can do. Instead of focusing on one player at a time, you'd have something like a high-tech training facility where everyone can practice multiple skills simultaneously (shooting, defense, passing). This changes the game completely.

Add AI, and you've got an assistant coach that sees everything: It can analyze players' movements, spot patterns, customize drills, and even predict how each player will perform under pressure. Then pair that with VR, the tech that makes simulated training feel real. Players can step into lifelike simulations, complete with sound, motion, and instant feedback, to sharpen their skills in an environment that feels just like game day. They can train for championship games, rehearse tough decisions, and build confidence without ever stepping onto the field or court.

But QC is still in its infancy. Today's machines are powerful in theory but unstable in practice. They need an ultracold environment to operate, can handle only limited data, and often produce errors due to *quantum noise* (environmental fluctuations or disturbances). They're also enormous, much like the mainframes of decades past. When you think about how massive those early mainframes were and how many people now have computers that fit in the palms of their hands (also known as smartphones), you can see where this is heading. Once QC reaches that same level of power and accessibility, it can completely transform T&D by analyzing complex learner data, personalizing training in real time, and running massive simulations that today's systems can only dream about. So, keep an eye on what's coming!

Knowing and Avoiding the Pitfalls of Training with VR

While VR offers exciting possibilities for T&D across various fields, from health-care to manufacturing and beyond, it also presents challenges related to cost, user health, content development, and ethical considerations. As the technology continues to advance, addressing these issues is crucial to maximizing VR training's

benefits while minimizing potential drawbacks. Table 16-2 highlights some key challenges to consider and ways to help counter them.

TABLE 16-2

Countering the Pitfalls of VR Training

Pitfall	Countermeasure(s)
High cost	Drive prices down by subsidizing the cost of programs and exploring financing
Health concerns	Enact guidelines for users that minimize motion sickness, require breaks
Isolation	Facilitate connections with multiplayer experiences, balance virtual training with live in-person training
Technical issues	Prioritize QA/feedback, update programs often, test the technology
Ethical concerns	Implement a code of ethics, educate users, promote balance
Accessibility	Make experiences inclusive and affordable, partner with orgs
Content limitations	Train creators, grants, use open-source programs
Complexity	Simplify activities/interfaces, provide clear instructions
Scalability issues	Implement Layer-2 solutions, alternative consensus mechanisms to improve throughput without compromising security
Energy consumption	Use energy-efficient algorithms and renewable energy sources



TIP

Use AI to sidestep many common VR challenges. It can cut costs by optimizing hardware, reduce motion discomfort by fine-tuning visuals, and ease isolation with more natural avatars and social spaces. AI can also spot glitches as they happen, flag inappropriate content, and improve accessibility with translation, gesture recognition, and audio descriptions. And by generating environments quickly and streamlining interfaces, it removes many content and usability barriers. Finally, by managing data and network loads, AI helps VR scale while lowering energy use—making it more affordable, inclusive, and sustainable.

- » Improving T&D with AI-enhanced AR
- » Recognizing how AR can be used for training
- » Identifying AI tools for developing AR training experiences
- » Supplementing other training methods with AR
- » Countering issues that may arise

Chapter **17**

Discovering Augmented Reality

Sophia sits in the company cafeteria, preparing for her presentation and testing her employer's latest augmented reality (AR) system. She clicks to a health and wellness slide, and to her amazement, it projects a 3D human body that seems to be suspended in midair in front of her. She zooms in on organs, traces muscles, and rotates the body to examine it from all angles. It's a far more interactive way to learn than simply looking at static diagrams. Best of all, she doesn't need headgear — just her laptop, tablet, or smartphone. Sophia takes a moment to appreciate how AR is transforming training and development (T&D) by seamlessly blending the digital and physical worlds.

Unlike virtual reality (VR), which requires headgear to take you into a virtual world, AR keeps you grounded in reality. It simply enhances what you see. AR is a seamless way to bring the digital world to life without leaving the physical one. And although smart glasses and headsets can create an immersive AR experience, they're not always needed.

Whether in classrooms or on the factory floor, AR is reshaping the way we learn and get things done. In this chapter, we'll explore the magic of AR and see how it's being used to transform T&D across industries.

Supercharging Learning with AI and AR

Early AR was based on technology like QR codes and GPS. Users would see 3D objects overlaying the camera feed or receive location-based information, but the system couldn't adapt or understand the environment. It was mostly static, triggered by specific inputs, like a visual marker or location.

AI has taken AR to the next level by enabling things like object recognition, real-time environment mapping, and personalized experiences. It's similar to the way T&D continues to evolve. Early training programs took a one-size-fits-all approach — basic content, delivered in a straightforward way. But with the integration of AI, training has become more personalized and dynamic, adapting to the learner's needs, the same way AI enhances AR to make it smarter, more intuitive, and immersive. It's like upgrading from a flip phone to a smartphone — both serve a purpose, but the smartphone opens up a world of new possibilities.

By leveraging advanced machine learning algorithms, AI has transformed how AR systems perceive, interpret, and interact with the real world, leading to more intuitive and impactful applications. This integration has not only enhanced user experiences but also expanded AR's potential training functions in fields such as aviation, construction, healthcare, and manufacturing. AI can improve AR in the following ways:

- » **Content creation:** Assisting with automating tasks like 3D modeling and animation, making development of AR training faster and more accessible.
- » **Contextual awareness:** Adapting to the user's environment, considering factors like traffic or weather and issuing safety warnings and other guidance.
- » **Gesture and voice recognition:** Enabling intuitive interactions through gestures and voice commands, enhancing hands-free control and user experience.
- » **Object and scene recognition:** Improving AR's ability to accurately overlay digital information onto real-world objects by recognizing and tracking them.
- » **Personalization:** Tailoring experiences based on user preferences and behavior, adapting content to emphasize certain topics and improve engagement.

» **Real-time data processing:** Processing large amounts of data in real time, ensuring that virtual elements align with physical surroundings.

Viewing Training through the AR Lens

It's fascinating to see how organizations are integrating AR into their training processes to improve both safety and efficiency. By blending the digital and physical worlds, AR makes learning more hands-on and accessible, without the need for a classroom or traditional equipment. (Notice how, in Figures 17-1 through 17-5, the real world remains visible, with digital or holographic images appearing as part of the environment. Contrast that with virtual reality, covered in Chapter 16, where the user is fully immersed in the virtual world.)

Here's how AR is being used for T&D in a wide range of industries:

» **Automotive:** Instead of just reading manuals or watching videos, mechanics and technicians can train on AR systems that project step-by-step instructions and diagrams directly onto a car, as shown in Figure 17-1. This allows them to perform repairs and maintenance tasks with real-time guidance, which is not only faster but also helps reduce human error.

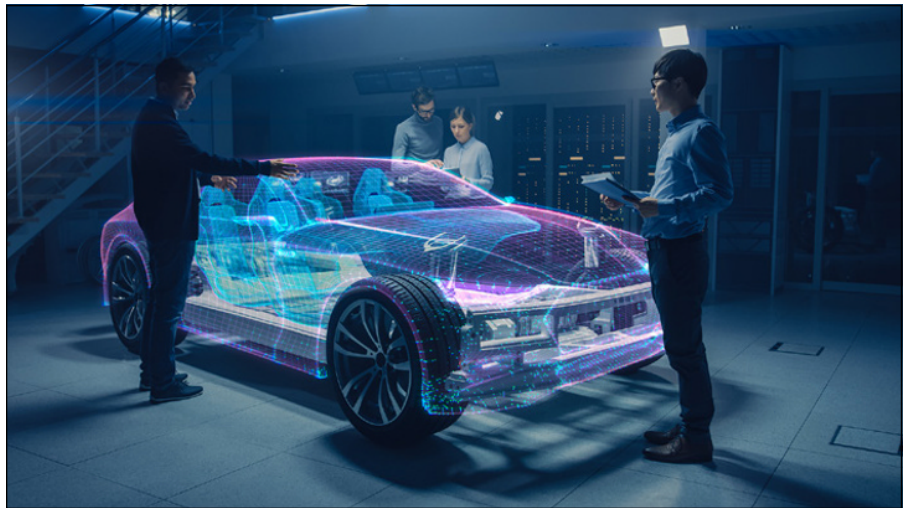


FIGURE 17-1:
Automotive
engineers using
AR at a training
center.

Gorodenkoff/Adobe Stock

- » **Aviation and aerospace:** AR is being adopted to create immersive training in which aviation and aerospace workers can simulate everything from troubleshooting machinery to navigating complex systems and equipment, all in a controlled, risk-free environment, as Figure 17-2 demonstrates.
- » **Construction:** Builders, architects, and other construction professionals can use AR to visualize building plans overlaid on the physical site, helping them ensure accuracy and efficiency during construction (see Figure 17-3).

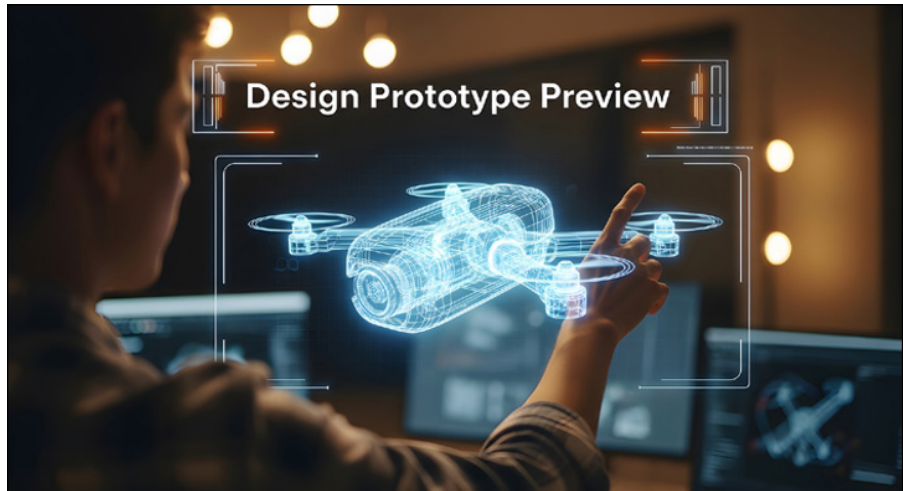


FIGURE 17-2:
Aviation engineer
using AR for
training in a
lab setting.

Hersya/Adobe Stock Photos



FIGURE 17-3:
An architect
viewing AR-
simulated
blueprints.

TheDinindu/Adobe Stock Photos

- » **Medicine:** AR is transforming medical training by allowing students to study the human body in immersive ways, as seen in Figure 17-4. They can explore 3D visuals of organs and overlay vital signs onto virtual patients, making learning more interactive and safer.
- » **Retail:** AR is a game changer for customer service training in which retail workers can see product details (see Figure 17-5) and become familiar with store layouts, boosting their knowledge and confidence.

FIGURE 17-4:
Doctor using
AR to show
3D model of a
patient's
anatomy.



Eduardo Accorinti/Adobe Stock Photos

FIGURE 17-5:
Trainee using
AR to learn
product details.



Kateryna/Adobe Stock Photos

Using AI Tools of the Trade

These tools cater to content creators of various skill levels, from beginners to experienced developers, enabling you to create engaging AR training experiences across a wide range of industries:

- » **ARKit** (<https://developer.apple.com/augmented-reality/arkit/>): Apple's framework for developing AR applications on iOS devices uses computer vision to blend digital content with the real world.
- » **ARCore** (<https://developers.google.com/ar/>): Google's platform for building AR experiences on Android devices offers tools for motion tracking, environmental understanding, and light estimation.
- » **Blippar** (<https://www.blippar.com/>): This platform allows users to create imaginative interactive AR training experiences for learners.
- » **Lens Studio** (<https://ar.snap.com/lens-studio>): You can create AR training experiences for Snapchat with this platform, which includes tools for building shareable lenses and filters.
- » **MoZeus** (<https://www.mozeus.com/>): This web-based AR development platform helps developers create AR experiences that can be accessed through a web browser without needing an app.
- » **Unity** (<https://unity.com/>): You can use this powerful game development platform to create interactive AR training apps.
- » **Zapworks** (<https://zap.works/>): This platform for creating AR experiences with a focus on education and marketing features tools for both beginners and experienced developers.

TAKING ACCESSIBILITY AND INCLUSIVITY INTO ACCOUNT

Picture someone with limited mobility trying to use an AR training module that requires intricate hand gestures. Or tiny text on an AR interface that's a tough read for someone with low vision. Incorporating AR into training isn't just about making sure everyone has access to the technology — it's about making everyone feel like they're included in the learning experience. Think about accessibility and inclusivity up front, so you're not leaving anyone behind.

When designed thoughtfully, AR training content can enhance accessibility for learners. Think voice commands instead of hand gestures, adjustable text sizes, color contrast

options, and multisensory feedback like haptics or audio descriptions. Inclusivity means recognizing that learners come with different abilities, backgrounds, and learning preferences and making sure AR works for all of them. The best AR training experiences don't just dazzle with cool technology; they connect with learners and give everyone the chance to succeed.

Blending AR with Other Training Tools and Methods

Whether learners are practicing a surgical procedure, troubleshooting a mechanical issue, or mastering soft skills through lifelike scenarios, AI can make AR smarter, more responsive, and deeply engaging. And when you combine AR with other instructional tools and training methods, you can create powerful interactive learning experiences tailored to different users.



REMEMBER

AR doesn't have to be a standalone superstar. It shines even brighter when blended with other learning tools and training methods. Think of it as the secret sauce that takes T&D from informative to unforgettable. Take a peek at Table 17-1 to get some ideas about how AR can complement other training methods.

TABLE 17-1 **Making Training Better with AR**

Training Tool/Method	How AR Enhances It	Example
Virtual reality	Create mixed reality experiences by blending AR's real-world overlays with VR's full immersion.	Learners in a medical training program explore AR anatomy models before stepping into a VR surgery simulation.
eLearning and mobile learning	Adds hands-on, interactive experiences to digital courses.	Instead of reading about car engine parts in an online course, learners use an AR app to explore a 3D model right in their workspace.
Instructor-led training and workshops	Helps trainers demonstrate complex ideas in real time with interactive visuals.	In a manufacturing training session, AR projects a step-by-step assembly guide onto a real machine, allowing learners to follow along.
On-the-job training	Provides real-time on-site learning without disrupting workflow.	Field technicians use AR glasses to receive instant instructions while repairing complex machinery.
Gaming and simulations	Turns training into a game, increasing engagement and retention.	Sales teams practice AR role-playing scenarios where virtual customers respond to their pitches in real time.

LOOKING TO THE FUTURE

Get ready for the next wave of digital technology. A slew of cutting-edge innovations are poised to transform how humans interact with the digital world and perceive reality, taking AR to mind-blowing new heights. Here are a few:

- **Brain-computer interfaces (BCIs):** These interfaces enable direct communication between the brain and external devices, allowing users to control digital applications and equipment with their thoughts. While still in early stages, BCIs have the potential to revolutionize how learners interact with and perceive the digital and physical world.
- **Haptic technology:** This technology simulates the sense of touch by applying forces, vibrations, or motions to the user. Haptics enhance AR experiences by providing tactile feedback, allowing users to interact more realistically with virtual objects.
- **Mixed reality (MR) and spatial computing:** MR blends digital overlays with physical surroundings, while spatial computing expands this idea by embedding computing into real spaces, creating environments where the digital and physical worlds merge seamlessly.
- **Quantum computing:** Although still largely experimental, quantum computing has the potential to revolutionize simulations, complex calculations, and data processing. In the context of AR, quantum computing may enable more realistic simulations and faster processing of complex visual data.



TIP

Assistive technology such as text-to-speech translation, *haptics* (vibrations and other tactile feedback), and eye-movement tracking can make AR training more accessible if necessary. For instance, learners with hearing loss can use real-time captions or sign language overlays built into an AR app. Check out the “Taking accessibility and inclusivity into account” sidebar for more info.

Knowing and Avoiding the Pitfalls of AR Training

Using AR for training can be incredibly effective, offering learners immersive interactive experiences. However, even the most exciting innovations come with challenges. Table 17-2 presents some common pitfalls to watch out for, along with strategies to overcome them.

TABLE 17-2 **AR Training Pitfalls and Countermeasures**

Pitfall	Countermeasure(s)
Technical limitations	Invest in high-quality hardware and regularly update software. Optimize apps for various devices to ensure a glitch-free experience.
User experience	Focus on intuitive design and clear instructions. Conduct user testing to refine interfaces and enhance engagement.
User affordability	Provide browser-based AR or affordable alternatives. Form partnerships to expand access in underserved areas.
Cost	Utilize open-source tools and platforms. Collaborate with educational institutions to share development costs. Focus on scalable solutions to manage expenses.
Distractions	Allow users to control information overlays. Ensure AR enhances tasks without overwhelming or distracting users.
Safety concerns	Incorporate safety reminders. Use spatial awareness features to alert users to nearby hazards.
Data privacy	Be transparent about how data is used. Incorporate robust data protection measures and give users clear options to control privacy settings.
Limited content	Invest in high-quality content creation. Collaborate with experts to produce diverse and engaging AR experiences.
Integration challenges	Work with stakeholders to ensure seamless integration into existing systems. Offer training sessions to ease adoption.
Potential for misuse	Establish clear guidelines for content accuracy. Monitor content to prevent misinformation and enable user reporting.



TIP

AI can help smooth out many of these bumps. It can optimize performance to overcome technical limitations, personalize interactions to improve user experience, and even suggest more cost-effective setups to make AR more affordable. AI can help filter distractions, enhance safety through smarter monitoring, and protect sensitive data. It can also generate or adapt content to expand what's available, ease integration with other systems, and reduce the risks of misuse by flagging inappropriate or unsafe actions. Essentially, AI acts like a smart copilot, helping AR deliver its magic more smoothly and safely.

- » Modernizing T&D recordkeeping with BT
- » Transforming credentialing and learning platforms
- » Pairing blockchain with AI
- » Seeing where BT is headed
- » Addressing some potential issues of using BT

Chapter **18**

Demystifying Blockchain Technology

Your team's shared skills portfolio is like a living ledger — a group journal where everyone's training and development (T&D) milestones are recorded. Each time someone completes a course or earns a certification, they add it to the portfolio for everyone to see. But if someone forgets to log their progress — or, worse, tries to tweak a record — the whole portfolio's credibility starts to crumble.

That's where blockchain technology (BT) comes in. At its core, blockchain is a digital database distributed across multiple computers, ensuring that no single person or company controls it. Every entry in this shared database is permanent and verifiable, making it both transparent and secure for all users. Once something's added, it's time-stamped and linked to everything that came before it — like pages of a printed journal that can't be torn out or rewritten. You don't have to rely on one person to maintain your training records because the system does it automatically. Every update has to be verified before it's locked in. The result? A trustworthy, tamperproof record of everyone's achievements that keeps the team's progress clear and secure.

And your trusty assistant AI can take your T&D recordkeeping up a notch. It can analyze your skills portfolio in real time, spotting trends like which team members are shining in certain areas or who might need a bit more support. BT works because of several key technologies. It uses a shared digital ledger that keeps information across many computers, making it hard to tamper with. Cryptography keeps transactions secure, and peer-to-peer networks let computers share data directly without a central authority. Consensus rules make sure everyone agrees on the data, and smart contracts can automatically carry out agreements. Cloud computing helps it run smoothly, and tools like IoT devices, AI, and APIs make it more useful and connected. Together, these make blockchain safe, reliable, and flexible. If you'd like to learn more, <https://www.ibm.com/think/topics/blockchain> has lots of good information.

AI can also help keep training on track, sending alerts if it notices any missing modules or compliance gaps. If something falls out of line, AI flags it so you can review it before it becomes a bigger issue. In short, while blockchain keeps your records secure and tamperproof, AI makes the whole documentation process smarter, more personalized, and easier to manage.

With every block in place, blockchain turns your learning records into a secure chain that can't be broken. In this chapter, you see how it transforms T&D with tamperproof records, fraud-proof certifications, and achievements that are instantly verifiable.



TIP

And if you'd like to dig even deeper, [ibm.com/think/topics/blockchain](https://www.ibm.com/think/topics/blockchain) has lots of good information.

Revolutionizing T&D Documentation with Blockchain

Think of blockchain as a super-secure digital notebook that keeps track of transactions or information. It's called *blockchain* because, as you see in Figure 18-1, the information is stored in blocks, like pages in a notebook. Each block is connected to the one before it, forming a chain. Once a block is added to the chain, it's locked in forever — unchangeable and tamperproof. The chain is shared across a network of computers, and every time something new is added, everyone in the network checks and verifies it. That's what makes blockchain so trustworthy and secure.

FIGURE 18-1:
Showing the
flow of data
through secure
chained blocks.



Visual Generation/Adobe Stock Photos



REMEMBER

Transparency and security aren't contradictory. Blockchain is transparent in the sense that anyone can see the information's history, but it's secure because the data is encrypted and immutable, meaning once something is recorded, it can't be changed or faked. So, while the information is open, it remains protected from tampering.

By leveraging blockchain, companies can make T&D recordkeeping more efficient, transparent, and trustworthy, paving the way for a future where skills and achievements are universally recognized and easily validated.

Here's one example of how blockchain can redefine T&D:

You're the head of T&D at a midsize company, tasked with ensuring that employees complete mandatory compliance training without cutting corners. At the same time, you need a seamless way to verify certifications for ongoing development programs. Enter blockchain.

On a bright Wednesday, your colleague Sam from HR bursts into your office with a grin. "Check this out!" he says, showing you an app on his laptop. "We've just integrated blockchain into our training system." You raise an eyebrow. "Blockchain? Isn't that for cryptocurrency? Are we paying people in Bitcoin for finishing their courses now?"

Sam laughs. "Not quite. Here's the deal: Blockchain gives us a virtually transparent way to track training progress and verify certifications. No more hunting down emails or wondering if someone really completed a course. It's all there — tamperproof and time-stamped." You're curious and ask him to elaborate.

“Say Jenna in marketing completes a data privacy course. The moment she finishes, her certificate gets added to the blockchain. It’s like a digital ledger that anyone can access — but only with permission. If Jenna goes for a promotion or applies for a new role, her training credentials are instantly verifiable. No more back-and-forth with providers or lost paperwork,” Sam explains. “Okay, that’s neat,” you admit. “But what about compliance audits?”

“Even better!” Sam continues. “When the auditors come sniffing around next quarter, we can give them secure, read-only access to our training blockchain. They’ll see who completed what and when — no spreadsheets, no stress.” You nod, starting to see the bigger picture. “And this will work for external training too, right? Like those leadership programs we send people to?” you ask. “Exactly,” Sam says. “It’s all centralized and portable. Employees own their credentials and can take them wherever they go, but we still get the benefit of tracking their progress while they’re here.”

By the end of the chat, you’re sold. You realize that blockchain isn’t just some buzzword. It’s a practical solution to streamline training, boost accountability, and cut administrative headaches. You smile at Sam. “Okay, let’s do it. But if we’re adding Bitcoin bonuses for course completion, I’m taking the first one,” you jest.

In T&D, blockchain is the gatekeeper that ensures the security and authenticity of certifications, training records, and learner achievements. Just like peanut butter holds a sandwich together, blockchain keeps the system trustworthy, preventing fraud and guaranteeing that every learner’s progress is verifiable.



TIP

AI is what makes the training experience dynamic and personalized. AI can analyze learner data, adapt content to individual needs, and offer tailored feedback, just like jelly sweetens the deal and makes the experience more enjoyable. When combined, blockchain secures the foundation of training, while AI enhances the learning process, making it more engaging and efficient. Together, they reshape T&D by offering both reliability and a personalized, high-impact learning experience.

Understanding the Training Applications of BT

BT has the potential to transform industries by offering secure, transparent, and decentralized solutions in some of the following ways:

Credentialing and certification

One of the great ways blockchain is shaking up T&D recordkeeping is through credentialing and certification. Traditionally, verifying someone's credentials has been a slow, tedious process, often involving phone calls, emails, and stacks of paperwork. But blockchain changes the game by creating a secure, tamperproof record of achievements.

Imagine earning a certification and having it instantly stored on the blockchain, where employers or schools can verify it with a click — fewer go-betweens, no delays. Companies are already making this a reality, allowing employees to keep their academic and professional records in a digital wallet that's secure and always accessible.



TIP

Now, throw AI into the mix, and things get even smarter. AI can scan and cross-check credentials across databases, flag discrepancies, and ensure that records stay current. This combo of blockchain and AI doesn't just speed things up — it builds trust and makes credentialing more reliable than ever.

Microcredentialing and continuous learning

Unlike traditional degrees and certifications, microcredentials are bite-sized, focused certifications that validate specific skills or knowledge. For example, a marketing professional can earn a microcredential in Google Analytics to showcase their expertise in data-driven decision-making without needing a full marketing degree. Platforms like Credly (<https://info.credly.com/>) and Accredible (<https://accreditable.com/>) leverage BT to issue learners digital badges and certificates for completing online courses, workshops, or other learning activities. These badges are verifiable via the blockchain, providing a transparent and trustworthy way to showcase skills and competencies to potential employers or collaborators.



TIP

With AI, microcredentials can be stored on the blockchain, enabling employees to build a comprehensive and verifiable record of their skills over time. This approach is particularly useful in industries where continuous learning and upskilling are essential, such as technology, healthcare, and finance.

Decentralizing learning platforms

Blockchain paves the way for decentralized learning platforms, giving both learners and trainers more freedom and flexibility. Instead of relying on traditional learning management systems with their high costs and gatekeepers, these platforms use blockchain's peer-to-peer networks to directly share, access, and verify

educational content. That means lower costs, fewer barriers, and a more open, global learning experience where anyone, anywhere, can tap into high-quality T&D.



With the help of AI, projects like BitDegree (<https://www.bitdegree.org/>), a gamified platform that focuses on Web3 education, are exploring blockchain-based solutions to create decentralized marketplaces for education and training. (Web3 is the newest version of the internet, built with BT.) These platforms aim to democratize access to high-quality educational content and services, allowing learners to directly connect with educators and content providers around the world.

Applying Blockchain across Various Sectors

Here's how the dynamic duo of blockchain and AI can turbocharge T&D in various sectors:

- » **Education:** Validating the integrity of certifications, making credentials tamperproof and easily verifiable. AI can recommend personalized learning paths based on past achievements, education trends, and job market demands.
- » **Energy:** Ensuring that energy sector employees have completed regulatory and safety training, reducing risks in hazardous environments. AI can analyze training completion rates and optimize workforce preparedness.
- » **Finance and banking:** Streamlining compliance training by ensuring transparent, immutable records of completed training programs for regulatory purposes. Digital blockchain contracts, known as *smart contracts*, can verify certifications and automatically grant access to financial roles based on training completion.
- » **Government:** Providing accountability by ensuring that civil servants have completed required ethics and compliance training. AI-driven analytics can assess training effectiveness and suggest improvements in policy-related training.
- » **Healthcare:** Securing training credentials for healthcare professionals, making it easier to verify specialized skills and certifications. AI can personalize training programs based on learning history and patient care data, ensuring ongoing compliance with evolving medical guidelines.

- » **Insurance:** Tracking compliance training for insurance professionals, reducing fraud, and ensuring agents are up to date with evolving policies. AI can recommend courses based on claim patterns and emerging risks.
- » **Legal:** Automating and verifying continuing legal education credits, ensuring legal professionals stay up to date with changes in the law. AI can facilitate adaptive learning for legal professionals based on case law trends.
- » **Real estate:** Verifying certification in property law, ethics, and transactions. AI can assess training effectiveness and recommend continuing education pathways.
- » **Retail and e-commerce:** Securing employee training records in customer service, sales, and compliance, ensuring the authenticity of professional development. AI can personalize learning experiences based on sales performance and customer feedback trends.
- » **Supply chain and logistics:** Tracking workforce training in compliance-sensitive roles, ensuring logistics personnel are properly certified for handling hazardous materials, customs regulations, and sustainability practices. AI can analyze training gaps and suggest personalized learning paths.



TIP

By integrating blockchain with AI, you can achieve new levels of security, transparency, and personalization in your T&D efforts, ensuring that your learners and organization stay ahead of the curve in a rapidly evolving landscape.

Peering into the Future

Future advancements in BT, including improvements in scalability, privacy, and *interoperability* (the ability of blockchain systems to work together), will drive wider adoption of blockchain in T&D. The integration of AI can take the technology even further. AI can personalize learning by analyzing progress and tailoring content, while AI-driven credentialing systems can provide real-time skill validation. Together, blockchain and AI are set to transform how employees learn, verify achievements, and build careers.

The following emerging careers reflect the growing demand for professionals who can navigate the complexities of BT in various sectors — from finance to health-care to education:

- » **Blockchain architect:** Creating the structure and strategy for blockchain systems, integrating them with existing business infrastructure.

- » **Blockchain consultant:** Advising businesses on implementing BT to improve operations and security.
- » **Blockchain developer:** Designing and building blockchain systems using languages like Solidity, JavaScript, or Python with expertise in blockchain protocols.
- » **Blockchain legal advisor:** Navigating legal issues related to smart contracts, digital assets, and data privacy.
- » **Blockchain project manager:** Managing blockchain projects, ensuring alignment with business goals, and overseeing timelines and resources.
- » **Blockchain security analyst:** Protecting blockchain networks and ensuring the integrity of transactions and data.
- » **Smart contract developer:** Specializing in creating self-executing contracts on platforms like Ethereum.

With the help of AI, BT has the potential to revolutionize the T&D landscape by offering enhanced transparency, verifiability, and accessibility. While challenges exist, continued innovation and collaboration among stakeholders will be key to realizing the full transformative potential of blockchain in training.

Knowing and Avoiding the Pitfalls of BT

Being aware of the pitfalls can help you navigate the challenges of implementing BT effectively and responsibly into your T&D system. A thoughtful approach, as shown in Table 18-1, is essential to maximize the benefits while minimizing the risks.

TABLE 18-1 Pitfalls and Countermeasures of Using BT

Pitfall	Countermeasure(s)
Complexity	Simplify integration of BT through targeted training and user-friendly interfaces. Provide clear documentation.
Scalability issues	Explore layer-2 solutions and alternative consensus mechanisms to improve throughput without compromising security.
Energy consumption	Shift to energy-efficient consensus algorithms and use renewable energy sources.
Regulatory uncertainty	Stay informed about regulations and collaborate with legal experts to ensure compliance.

Pitfall	Countermeasure(s)
Security risks	Implement rigorous testing and auditing of smart contracts. Use multi-signature wallets for enhanced security.
Data privacy concerns	Use privacy-enhancing technologies like zero-knowledge proofs to protect sensitive information.
Integration challenges	Develop APIs and middleware solutions. Promote pilot projects to build internal support.
Immutability issues	Establish error-handling protocols like off-chain arbitration or multi-signature approvals for critical data.
Public perception	Educate stakeholders on blockchain's legitimate uses. Build credibility through partnerships and case studies.
Cost	Consider phased implementation and explore cloud-based solutions or grants to reduce up-front investment.



TIP

AI can help address these challenges by optimizing blockchain processes, improving efficiency, and managing vast amounts of data more effectively. For instance, AI algorithms can enhance scalability by predicting and remedying network congestion, while AI-driven analytics can provide insights for regulatory compliance. Addressing these challenges with the aid of AI is crucial for the future development and acceptance of BT.

6

The Part of Tens

IN THIS PART . . .

Consider ten ways that feedback can continuously improve how you prepare and deliver learning experiences.

Discover ten ways to identify and secure funding for high-impact training programs.

Turn training upside down with hackathons.

- » Asking specific questions
- » Getting learner and peer feedback
- » Tapping into AI's helpful tools
- » Demonstrating your value with continuous improvement

Chapter **19**

Ten Tips for Turning Feedback into Your Superpower

Feedback is the compass that keeps you pointed in the right direction. It's sometimes the gentle nudge that says, *Hey, it's time to rethink that group activity. Or Maybe I should cut those boring slides.* Embracing feedback isn't just about improving your learners' experience; it's about staying relevant and ensuring your training sessions have a transferable and lasting impact. In this chapter, you discover ten ways to make feedback your superpower.

Create a Safe Environment

Foster a nonjudgmental atmosphere from the get-go by emphasizing that all feedback (whether it's positive commentary or constructive criticism) is essential and directly contributes to improving the session's value and impact. Consider

including statements like these in your opening remarks to make everyone feel comfortable sharing their views:

- » Please participate throughout this session. You have as much to learn from each other as you have to learn from me.
- » There are no wrong answers and no unwelcome questions or comments.
- » Share your own experiences and insights throughout this session. They help everyone learn — including me.

Encourage Open Discussions

Open discussions are a great way to keep your sessions collaborative and engaging. They give learners a chance to share different perspectives, ask questions, and respectfully challenge ideas. Plus, these conversations double as real-time feedback, letting you see what's clicking and what may need tweaking. By encouraging open dialogue, you help everyone take ownership of their learning while boosting the group's overall growth. Here are some questions you can toss out throughout your session:

- » What are your thoughts on this topic?
- » Does anyone have a different perspective or experience they'd like to share?
- » How does this resonate with you?
- » Are there any questions or concerns about this topic you'd like to explore together?
- » How do you see putting [topic] into action?

Review Nonverbal Cues

Body language provides key insights into how learners are processing information, their level of interest, and their overall connection to the content. When observing nonverbal cues, look for the following signs of engagement or disengagement: Pay attention to learners doing any of the following:

- » Leaning in and making eye contact or glancing away and checking their phones?
- » Smiling, nodding, and showing curiosity or silently frowning, looking bored, or disengaged from discussions and activities?
- » Sitting upright and alert or slouched with low energy?
- » Using gestures naturally when speaking or remaining still and withdrawn?
- » Raising eyebrows, tilting heads, or glancing toward others to signal they're processing information or seeking reassurance?

Conduct a Reflection Session

If time allows, organize a quick group reflection at the end of the session. Ask learners to share one thing they learned and can apply immediately, one thing they found challenging, and one thing they'd like to see changed. This can be done either in an open discussion format or using a *round-robin* approach (rotating the order of participation to ensure everyone has a chance to contribute). If you're short on time, ask learners to write down their response to the training and send their thoughts to you via email, which you can review later.

Ask Key Questions

Focus your follow-up survey questions on key parts of your session to get actionable feedback. Broad questions often lead to vague answers, while targeted ones give insights you can actually use. AI can help you spot patterns and trends in learners' responses, making it easier to see what's working and what needs attention. Try asking questions like these:

- » Was the material relevant to your role?
- » Did the examples help clarify the concepts?
- » What part of the session was most/least useful?
- » Is there anything you wish we had covered in more detail?
- » How was the pacing and clarity?
- » Do you have any suggestions for future sessions?

Incorporate Electronic Polling

Electronic polling is a great way to gather feedback, both during and after a session. During virtual or hybrid (live and virtual) sessions, for example, tools like Poll Everywhere (<https://landing.poll.everywhere.com/>) and Mentimeter (<https://www.mentimeter.com>) let learners respond instantly through polls, quizzes, or word clouds using their phones or computers. Seeing responses in real time keeps everyone engaged, sparks discussion, and helps you adjust the session on the spot.

SurveyMonkey (<https://www.surveymonkey.com/>) is ideal for gathering feedback after all types of sessions, giving learners a chance to reflect on your training and share more detailed thoughts.

Using both polling and surveys (as applicable) ensures you capture a full picture of learners' understanding, engagement, and opinions — while keeping the experience interactive and fun.



TIP

If you make the survey anonymous or name optional, you encourage more honest and open responses.

Get Peer Input

Getting feedback from a colleague or fellow trainer can add a valuable layer of insight to your future sessions. They can sit in and observe how the session flows, how learners respond, or whether activities are hitting the mark. You can ask them to focus on specific issues, like engagement, clarity of explanations, or pacing. Reviewing their written feedback together can help you spot patterns or points you may have missed. Their fresh perspective complements what you hear from learners and gives you ideas for fine-tuning your approach for next time.

Get AI to Help Interpret Feedback

AI takes feedback to the next level. It can spot patterns in learners' responses, such as common mistakes on a safety procedure quiz — or detect sentiment in open-ended comments, such as frustration with a difficult module. It can track progress and identify skill gaps, for instance, flagging that a learner needs more practice on client communication. Advanced features like real-time insights, automated assessments, gamified feedback, and even bias detection can make

feedback more engaging and actionable. With AI, a simple survey transforms into a tool that guides growth and improves training for everyone.

Here are some of the AI tools you can use to gather feedback to beef up your training sessions:

- » **ChatGPT** (<https://www.chatgpt.com>): Generates clear, targeted questions for structured training feedback.
- » **Qualtrics XM** (<https://www.qualtrics.com/>): Creates AI-driven surveys, analyzes feedback with natural language processing, and adapts questions in real time.
- » **Slido** (<https://www.slido.com/>): Uses live polls, Q&A, and AI analytics to gauge engagement and collect instant feedback.
- » **Microsoft Power BI** (<https://www.microsoft.com/en-us/power-platform/products/power-bi>): Visualizes feedback data with AI-driven insights on trends, patterns, and sentiment.

Act on Feedback

After each session, review the feedback and look for patterns that tell you what worked and what didn't work. Ask yourself questions like: What parts of my delivery could be clearer? Where did learners seem disengaged? Which activities might be more effective next time? Use these insights to adjust your materials, timing, and approach, so each session becomes stronger than the last. For example:

- » Learners consistently skip a particular exercise: Consider simplifying it or adding clearer instructions.
- » Multiple participants mention confusion during a specific topic: Revisit your explanation or add visual aids.
- » Engagement drops midway through the session. Try breaking it up with a quick poll, discussion, or interactive activity. Or maybe it's just too long with not enough value.



REMEMBER

AI can help you act on feedback by suggesting clearer wording, improving your slide design, or generating interactive activities that make challenging concepts easier to understand. It can recommend pacing adjustments, rewrite confusing sections, create narratives, and even produce short practice scripts to strengthen your delivery for next time.

Spotlight Your Value through Continuous Improvement

By keeping track of feedback from each session and making adjustments along the way, you can show that your training program is evolving based on real input. You can share quick summaries or highlights of how feedback has shaped recent sessions to provide concrete proof that your training is responsive, effective, and on target with the company's goals. Even with new learners each time, consistently documenting improvements creates a clear story of growth, showing that every session makes a measurable difference. This not only builds your credibility with the company but also clearly illustrates the benefits of your training, making the value of their investment unmistakable.

IN THIS CHAPTER

- » Searching for funding with AI-powered tools
- » Finding grants from governmental agencies
- » Tapping into private grants
- » Checking grant databases and foundations
- » Ordering a copy of *Grant Writing with AI For Dummies*

Chapter 20

Ten (Plus One) Ways to Find Funding for Training Initiatives

If you're looking to fuel your next big workforce development project, an abundance of grant funders are waiting to hear from you. From federal funding portals to local economic development programs, industry-specific grants, and even philanthropic foundations, the possibilities are endless. Whether you're aiming to upskill your workforce, launch a new training initiative, or collaborate with educational institutions, this chapter steers you toward a grant that will support your vision.



TIP

If your application isn't approved, many programs allow you to reapply at a later date, so don't be discouraged. Use feedback from the first attempt to strengthen your next submission.

AI-Powered Tools

Here are a few AI-powered tools that can streamline the grant-finding process for training and development (T&D) initiatives. These platforms can scan large databases of funding opportunities, match grant criteria to your organization's needs, and even suggest ways to strengthen your application. Some tools can even track deadlines, provide alerts when new opportunities arise, and analyze past successful proposals to identify patterns in what funders prefer. Others can help prioritize grants based on your goals, potential award size, and likelihood of success, saving you time and effort in the research process.

- » **Grant discovery and search optimization:** Instrumentl (<https://www.instrumentl.com/>) uses AI to scan and match grant opportunities from federal, state, and private sources based on your organization's mission and funding needs.
- » **Eligibility matching:** OpenGrants (<https://opengrants.io/>) leverages AI to analyze grant eligibility, ensuring your training initiative aligns with the funder's priorities before you invest time in applying.
- » **Application assistance:** Grantable (<https://www.grantable.co/>) is an AI-powered writing assistant that helps you draft, edit, and refine grant proposals, streamlining the writing process and improving clarity.
- » **Funding trend analysis:** GrantStation (<https://grantstation.com/>) offers data-driven insights powered by AI, helping you understand funding trends and tailor your proposals to increase your chances of success.

Federal Government Grant Portals

Look into the U.S. government's repository for federal funding opportunities at <https://www.grants.gov>. Federal funding for grants depends on Congress which decides how much money goes to programs each year. Agencies then distribute these funds through competitive grants, so the amounts available may vary.

State and Local Economic Development Programs

Many states and municipalities provide grants to support local workforce development, often tailored to regional economic needs and industries. Visit your state's official website (for example, California's grant portal can be found at <https://www.grants.ca.gov/> and New York state's grant portal is at <https://grantsmanagement.ny.gov/>), or prompt AI for "[state or city] grant portal grants opportunities."

Industry-Specific Grants

Explore grants targeted toward specific industries or sectors, which can provide specialized funding for workforce training programs in high-demand fields. For example, check out the U.S. National Science Foundation's Advanced Technological Education Program (<https://new.nsf.gov/funding/opportunities/ate-advanced-technological-education>).

Corporate Sponsorships and Foundations

Large corporations often fund workforce development as part of their corporate social responsibility programs, aiming to enhance workers' skills and create job opportunities in the communities they serve. Companies such as FedEx (<https://www.fedex.com/en-us/small-business/grants.html>) offer grants and partnerships to nonprofits for things like digital skills training, helping people build essential tech skills for the modern workforce.

Professional Associations and Industry Groups

Many associations offer grants or scholarships for training and professional development, providing financial support for career advancement. For example, SHRM Foundation (<https://www.shrm.org/foundation/scholarships-grants-awards/grants>) funds scholarships for HR professionals seeking certification or advanced education, fostering the growth of HR talent in the workforce.

Philanthropic Foundations

Large foundations often fund workforce development efforts, focusing on projects that create sustainable job opportunities and promote workforce equity. The Kresge Foundation (<https://kresge.org/>) and the Gates Foundation (<https://www.gatesfoundation.org/about/how-we-work/grant-opportunities>) are just the tip of the iceberg when it comes to initiatives that boost access to skills training and workforce equity, particularly in underserved communities.

International Funding Sources

Explore international funding opportunities, particularly if your training has a global or cross-cultural focus, to expand the reach and impact of your programs. Two examples are UNESCO's International Fund for Cultural Diversity (<https://www.unesco.org/creativity/en/ifcd/apply>) and the European Union's grants and funding website (https://european-union.europa.eu/live-work-study/funding-grants-subsidies_en), both of which offer funding for various educational and workforce development initiatives, supporting projects that aim to improve education systems and employment opportunities worldwide.

Grant Databases

Use specialized databases to search for grants tailored to your needs. Tools like Candid's Foundation Directory (<https://fconline.foundationcenter.org/>) provide access to a wide array of funding opportunities, helping organizations find grants that align with their goals.

Partnerships with Educational Institutions

Collaborate with universities or community colleges that may have access to training grants, leveraging their resources and expertise to deliver effective workforce development programs. The U.S. Department of Labor's Apprenticeship Building America grant program (<https://www.apprenticeship.gov/>) provides funding to educational institutions and employers to expand apprenticeship programs, enhancing workforce training through hands-on experience.

Bonus: Get a Copy of *Grant Writing with AI For Dummies*



SHERYL
SAYS

They say there's no such thing as bad publicity, so I'm unabashedly calling this "brand consistency." That being said . . . rush to get a copy of *Grant Writing with AI For Dummies*, also written by yours truly and published by Wiley (see the cover image in Figure 20-1). It's a shameless plug, I know, but I promise this book will help you boost your chances of being selected for funding, craft inspiring stories that tug at reviewers' heartstrings and convince them to open their wallets, find loads of valuable websites, write spot-on executive summaries, and crack the keyword code so electronic scanners notice you. And best of all, you'll find out how AI can be your most valuable sidekick.

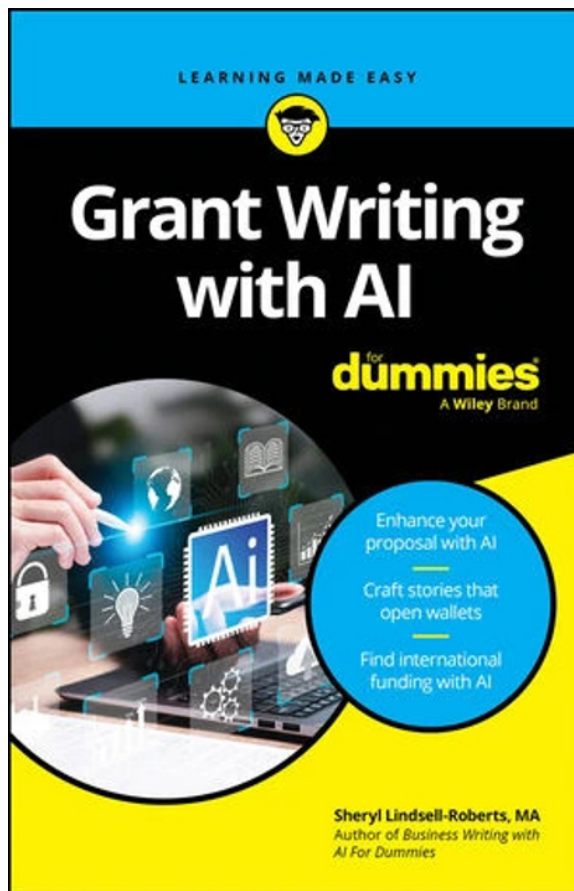


FIGURE 20-1:
Grant Writing
with AI For
Dummies.

Sheryl Lindsell-Roberts 2024/John Wiley & Sons

- » Learning by doing, not by sitting through preplanned sessions
- » Building leadership skills through hands-on challenges
- » Driving collaboration and improving team processes
- » Advancing sustainability and regulatory compliance

Chapter **21**

Ten Ways Hackathons Can Turn T&D on Its Head

A *hackathon* (a mashup of *hack* and *marathon*) is an intensive event where participants collaborate to solve problems or create prototypes in a short time. Think of a hackathon as an “innovation gym”: Instead of lifting weights, learners flex their creative, problem-solving muscles through short, high-energy sessions tackling real-world challenges. Participants act as developers, trainers, and learners all in one, jumping straight into the action with no facilitator, no slides, no defined script — just problems to solve. That’s the power of hackathons: learning by doing. Teams brainstorm, test, fail, and fix by discovering what does and doesn’t work. It’s training that happens on the spot, not in the classroom.

In this chapter, you explore how hackathons can crowdsource ideas, solve real business problems, and build new skills in hands-on ways. As a T&D strategy, hackathons bridge learning and doing — turning training into real-time problem-solving which can be powered by AI tools for rapid prototyping, data analysis, and creative brainstorming.

Turning the Training Dial to a New Setting

Originating in the tech world, hackathons, sometimes referred to as *innovation sprints* or *idea jams*, now span a range of industries. Regardless of what they're called, hackathons help people learn, experiment, and innovate together. Think of them as reverse T&D: no preplanned lessons, no rigid agendas — just learning on the fly. Here are two shining examples:

- » Deloitte employees join internal hackathons to tackle real client challenges like improving data transparency or automating reports. Teams are cross-functional (a marketing analyst may pair with a data engineer and a user experience designer, for example), each discovering new tools and approaches as they go. By the end, they've learned more in two days than in weeks of structured training. They're driven by curiosity, collaboration, and real problems rather than preplanned lessons.
- » Capital One hosts internal hackathons where employees from different departments come together to design solutions that improve customer experiences or streamline internal processes. Team members act as creators, learners, and problem-solvers, experimenting and testing ideas in real time. The fast-paced, hands-on environment allows participants to pick up skills and insights far beyond what traditional training can offer.

With hackathons, questions replace answers, and teams discover that the fastest way to learn is to *build*, *test*, and *adapt* in real time. This approach doesn't just refresh your training — it reimagines it. Here's how:

Traditional Training	Hackathon-Based Lessons
Top-down	Bottom-up
Instructor-led	Self-directed
Content first	Problem first
Safe environment	Real-world constraints
Learn then apply	Apply to learn
Gives answers	Forces questions
Measures retention	Measures results
Fixed outcomes	Open-ended solutions
Success = completing activities	Success = building something that works



REMEMBER

Hackathons aren't meant to replace other training methods. They simply turn up the heat and add some spice to how people learn. They give teams room to experiment, take risks, and discover solutions in real time. And while hackathons may look unstructured, they actually include prompts, timelines, guardrails, and judging criteria, providing just enough direction to keep people focused while still exploring freely.

Making Training More Immersive

Ever wonder what it would be like to learn to sail without ever leaving the dock? Traditional training can feel like that. You can listen to a lecture, view slides, or watch a video. But you're not actually on the water, and you can't feel the wind in your face, hear the waves against the hull, or make the quick decisions that can keep the boat (and you) afloat in an emergency. Now consider how you can improve training experiences by adding virtual reality (VR) or augmented reality (AR).

In a VR or AR hackathon, learners step into immersive simulations, navigating obstacles, testing out solutions, and seeing the immediate impact of their decisions. It's like taking the helm in a team regatta, where everyone has a role, adjusting the sails and conquering challenges in real time, and feeling the exhilaration — and the virtual sea spray on your face — as you cross the finish line together. (Dive into Chapters 16 and 17 to find out more about VR and AR.)



TIP

AI can track learners' actions, suggest adjustments, and match learners with complementary skills, just like a captain guiding a sailing crew. Even without VR or AR, interactive online platforms, gamified challenges, or collaborative AI tools can recreate this hands-on, high-energy environment, letting teams learn by doing so they walk away with skills they can implement immediately.

Developing Soft Skills in Real Time

Hackathons are a hands-on way to develop essential soft skills in real time. By working in teams to solve challenges, employees can practice communication, collaboration, problem-solving, adaptability, and creative thinking in a dynamic, high-pressure environment. Unlike traditional training, hackathons put learners in situations where they interact, negotiate, and make decisions with others. For example, a group of customer service representatives can join a hackathon to reimagine how their company handles customer complaints. Working under time

pressure, they brainstorm, test ideas, and present a prototype solution — strengthening their teamwork and communication skills while improving a real business process.



AI can enhance this experience by analyzing team discussions, offering real-time feedback, or suggesting new ways to approach a problem, helping learners understand not just *what* they accomplished, but *how* they worked together to get there.

Onboarding New Employees

Traditional onboarding often feels like sitting through a series of overwhelming presentations. New hires are bombarded with a lot of information, but it can be hard to see how it all fits together when they're thrown into the trenches. Hackathons change that scenario. Imagine a group of newcomers tasked with designing a mini project for an actual company process, like improving the way customer requests are handled. Instead of just hearing about company systems and policies, they dive in, collaborate across departments, and experiment with real solutions.



AI can help by pairing new employees with teammates whose skills complement theirs and suggesting challenges that match key onboarding goals. The result? They not only learn faster but also build confidence, form relationships, and get a real feel for how the company works. This is something traditional onboarding rarely achieves.

Improving Customer Service

Customer service training often involves reading scripts, watching role-play videos, or attending dry policy lectures. It teaches the rules but doesn't fully prepare employees for real-world situations.



Now imagine a group of customer service reps at a hackathon challenged to design a faster, AI-assisted way to handle support requests. They collaborate, test ideas, and land on solutions in real time, guided by AI insights to highlight common frustrations and skill gaps. Instead of passively learning, they actively create improvements, share knowledge across teams, and leave the session with practical tools and strategies they can apply immediately.

Fostering Leadership Skills

Think of typical leadership training like reading a driver's manual. You can memorize all the rules, but you won't truly learn to drive until you get behind the wheel. Hackathons put learners in the driver's seat. Picture a team racing to redesign a workflow or launch a mini project, with someone stepping up as the team leader. They must make decisions on the fly, delegate tasks, resolve conflicts, and steer the team toward the finish line.



TIP

AI can act as a member of the pit crew, giving the driver real-time feedback, spotting team dynamics, and suggesting leadership strategies to experiment with. By the end of the sprint, emerging leaders don't just understand the rules of the road — they've driven the management path, gaining hands-on experience, confidence, and skills to navigate real-world leadership challenges.

Strengthening Workplace Collaboration

Imagine trying to connect people who've never worked together before. All of them have different tools, backgrounds, techniques, and ways of thinking. Hackathons turn that challenge into a learning opportunity. Teams made up of learners from different departments come together to solve a shared problem, combining their unique skills and perspectives.



TIP

AI can help by suggesting team pairings that balance expertise and learning styles, tracking progress, and offering real-time guidance. The result is a more connected workforce that figures out how to communicate, coordinate, and innovate together — achieving outcomes that wouldn't be possible in siloed training sessions.

Optimizing Business Processes

Have you ever wondered what really makes your business processes run smoothly? Despite the best planning, you sometimes don't know where roadblocks may be slowing the team down. That's what hackathons do for business processes. Teams tackle real workflow challenges, test ideas, spot bottlenecks, and experiment with smarter, faster ways of getting work done.



TIP

AI can help by pointing out inefficiencies and giving feedback on the results of different approaches. The outcome? Learning that's practical, collaborative, and directly connected to improving how work gets done. It's far more engaging and beneficial than sitting through a lecture.

Driving Sustainability Initiatives

Turning a company toward sustainability can feel like trying to steer a massive ship through a raging storm. Every decision matters, and small missteps can have big consequences. Hackathons give learners a chance to take the helm in a safe, high-energy environment. Teams tackle actual environmental or social-impact challenges, designing solutions, testing ideas, and measuring outcomes in real time.



TIP

You can use AI to highlight the initiatives with the greatest potential for impact and suggest team pairings to maximize creativity and efficiency. This hands-on approach not only teaches practical skills but also empowers learners to drive meaningful, measurable change — far beyond what traditional training can offer.

Navigating Compliance Rules

Think of compliance rules like a giant, tricky board game. You can read the instructions, but you don't really know the challenges until you start rolling the dice. Hackathons turn compliance training into that kind of hands-on experience. But unlike game-based learning, which you can find out more about in Chapter 13, the stakes and scenarios are real. Teams work together to tackle situations that require them to apply regulations, policies, or ethical guidelines in actual workplace contexts.



TIP

AI can make the experience even smarter by highlighting risks, suggesting scenarios that stretch problem-solving skills, and giving real-time feedback on decisions. Learning about regulatory or ethical compliance becomes practical, collaborative, and memorable — and employees gain knowledge and skills they can apply on the job, not just in a simulation.

Lingo Lounge

Welcome to the Lingo Lounge where training and development (T&D) jargon kicks off its shoes and speaks plain English. This is your chill spot to decode the buzzwords, acronyms, and trendy phrases that pop up in this book. Grab a seat, relax, and make sense of the language that keeps the world of T&D moving.

AI (artificial intelligence): Gives computers the power to think, learn, and act like a brainy sidekick.

algorithm: A step-by-step recipe for solving problems — whether you're baking a cake or sorting data.

asynchronous: Communication where responses happen on your own time, like emails or texts.

augmented reality (AR): Digital magic that overlays cool stuff onto the real world — no special glasses needed.

bias and variance: These are the troublemakers in machine learning. Bias is like a stubborn professor who sticks to old ideas, while variance is a moody artist who changes their style based on the latest trend. Both can mess up a model's predictions, so balancing them is key!

BitDegree: A gamified platform that focuses on Web3 education. It offers interactive missions and rewards, allowing users to gain real-world skills while earning various incentives.

blended learning: A learning model that combines online activities with required in-person sessions, as opposed to hybrid learning where learners can participate either online or in person.

blockchain: A tamperproof digital ledger for tracking things like training credentials.

B-roll: Extra footage that enhances the main video, like scenic shots in a documentary.

CBT (Computer-Based Training): Interactive learning on a computer, with quizzes, simulations, and exercises.

computer vision: Teaches computers to “see” and interpret images and videos.

curator: The matchmaker of training who selects the best learning resources for specific needs.

deep learning (DL): AI's “super brain” that finds complex patterns in data.

eLearning: Online learning that happens anywhere, anytime — like an internet-powered classroom.

emotional processing unit (EPU): In AI, helps machines understand and simulate human emotions.

ethics in AI: The moral compass for AI that ensures fairness, privacy, and responsible use.

feature engineering: Turns raw data into useful clues for AI models to make better predictions.

gamification: Makes learning fun by adding game elements like points, levels, and rewards.

GANs (Generative Adversarial Networks): AI's creative duel — one network generates, while the other critiques.

GBL (Game-Based Learning): Uses games to make learning engaging and effective.

GPT: AI that generates humanlike text, which is great for writing, chatbots, and more.

hackathons: (A combination of *hack* + *marathon*) A short, intense event where learners come together to solve problems, build projects, or create new ideas — usually in teams — within a limited time. It's all about collaboration, creativity, and fast-paced learning without any preset session outlined.

hallucination: When AI makes up stuff that sounds real but isn't.

HI (Human Intelligence): A key reason AI can't replace humans: emotional and social intelligence, creativity and innovation, and ethical and moral judgment.

hybrid learning: A flexible learning model where learners can participate either online or in person, as opposed to blended learning that combines online activities with required in-person sessions.

hyperparameters: The settings that control how an AI model learns.

intellectual property (IP): Your brand's invisible assets, including your ideas, reputation, and creations.

just-in-time (JIT): Instant learning such as quick guides, videos, or AI help when you need it.

letterboard: Old-school message boards with plastic letters for creative announcements.

LMS (Learning Management System): A digital classroom manager for organizing and tracking online courses.

ML (Machine Learning): Training computers to learn from data like people learn from experience.

neural network: A web of AI "neurons" that recognize patterns, like a simplified brain.

NLP (Natural Language Processing): AI's crash course in human language that helps computers chat and understand text.

NPC (Non-Player Character): Computer-controlled characters in games or simulations.

ODEM: A blockchain-powered platform connecting learners with educators.

overfitting: When AI memorizes instead of understanding — great on practice tests, but bad in real life.

precision: Measures how many of AI's positive predictions are actually correct.

qubit: Quantum computing's version of a bit, or unit of information, making mind-bending calculations possible.

reinforcement learning: The way AI learns by trial and error, like training a pet with treats.

RPG (Role-Playing Game): Players become characters in a fictional world, solving problems and making decisions.

scikit-learn: A go-to Python library for machine learning.

social proof: People trusting what others have experienced, making social proof powerful in training.

supervised learning: When AI learns from labeled examples, like a student with a teacher's answer key.

synchronous: Real-time communication such as video calls, live meetings, or chats.

test data: The final exam for AI — checks how well it learned.

training data: The study material AI learns from to make predictions.

transfer learning: When AI applies knowledge from one task to another — like knowing Spanish helps with learning Italian.

underfitting: When AI is too simple and misses key patterns.

unsupervised learning: When AI explores data without labels, finding hidden patterns.

UX (User Experience): The goal of UX is to make using a product, website, or app easy and enjoyable.

validation data: A practice test for AI to fine-tune its performance.

VILT (Virtual Instructor-Led Training): Live online training with an instructor.

vlog (Video Blog): A way to share insights through engaging videos.

voluntold: “Volunteering” for a task you didn’t actually sign up for — it happens a lot at work.

VR (Virtual Reality): Fully immersive digital worlds you can explore with special gear.

XAI: Works by showing why AI made a choice — kind of like pulling back the curtain to see what information mattered most and how it led to that decision. For example, if AI denies someone a loan, XAI would explain that the decision was based on factors like income and credit history rather than just giving a “no.”

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About the Author

Sheryl Lindsell-Roberts is a transplanted New Yorker living in the Boston area with her husband, Jon. Her distinctive New York accent bears testament to her roots (as she charmingly says *cough-ee*). Raised by a grammar-obsessed mother who introduced her to complex vocabulary and spelling (such as *antidisestablishmentarianism*) at the age of five, she has turned her early fascination with language into a lifelong passion and carved an illustrious career path fueled by her mastery of words.



For 30+ years, Sheryl has been a training luminary, seamlessly blending the art of storytelling with the science of T&D. Whether in a training room, boardroom, or virtual space, she captivates learners and transforms even the driest topics into engaging, *aha*-filled sessions. Training has afforded her the opportunity to visit exotic locales such as Strawberry Point, Iowa (home to the world's largest strawberry sculpture), and Bayonne, New Jersey (where exotic comes in the form of a pet shop selling rare animals). As she likes to say, however, *It's not about the destination — it's about the accumulated stories that spice up the next training session.*

With AI as her sidekick, Sheryl uses storytelling to take T&D to a whole new level. She uses AI tools to streamline content creation, make learning personal, and add the interactive elements that keep people hooked. Her training sessions are sharp, dynamic, and packed with the wit and wisdom learners can't get enough of. Her sought-after workshops include sessions on business and technical writing, presentation skills, storyboarding, grant writing, and others that can be tailored to the needs of each client. It's no surprise that she's known as a trailblazer — always finding fresh ways to blend the human touch with cutting-edge tech.

With 25+ books under her belt (some of which have been translated into multiple languages), Sheryl has penned nine other *For Dummies* books — or, as she likes to call them, “For Smarties” books. These works showcase her signature ability to blend humor and insight with practical advice, making even the most complex topics accessible and engaging for readers of all backgrounds. Her books have become go-to resources for professionals looking to level up their communication skills while enjoying a dash of her wit and wisdom.

Beyond her professional accomplishments, Sheryl dives into a kaleidoscope of pastimes, from creative pursuits like interior decorating and poetry, to outdoor adventures like hiking, kayaking, and cross-country skiing. She finds inspiration

in reading, gardening, painting (pictures, not walls), practicing yoga, playing the violin, hobnobbing around the world, and, most of all, spending time with family and friends.

To find out more, visit Sheryl on LinkedIn at <https://www.linkedin.com/in/sherylwrites/>.

Dedication

To each learner who attended my training sessions over the years: This book is as much yours as it is mine. I've learned as much from you as you have from me — perhaps even more. Your insights, questions, stories, and enthusiasm have been a constant source of inspiration. Thank you for sharing your journeys, your perspectives, and your passion for learning. You've shaped this book in ways you can never fully realize.

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