



# AI+ Learning & Development Practitioner™

Certification



# Executive Summary

The AI+ Learning & Development Practitioner certification offers a comprehensive examination of AI's transformative capabilities within educational settings. Through a series of modules encompassing Machine Learning, Natural Language Processing, Ethical considerations, and Emerging Trends, participants acquire a profound comprehension of AI fundamentals and their practical implications. Participants will learn to design adaptive learning systems and navigate ethical dilemmas, fostering responsible implementation of AI solutions. The course culminates in a capstone project, enabling learners to tackle real-world educational challenges with their acquired knowledge. By the course's conclusion, participants are empowered to spearhead innovation and elevate learning outcomes using AI-driven strategies.

# Certification Prerequisites

- A basic understanding of artificial intelligence concepts and terminologies
- Familiarity with learning theories and instructional design principles
- Proficiency in using digital tools and platforms for educational purposes
- Some experience in educational or training roles, such as teaching, content development, or instructional design
- A willingness to engage with technical subjects and apply AI technologies in the context of learning and development

# Exam Blueprint

Number  
of Questions

**50**

Passing  
Score

**35/50 or 70%**

Duration

**90 Minutes**

Format

**Online via AI  
Proctoring platform**

Question Type

**Multiple Choice/Multiple  
Response**

# Exam Overview

Module	Weight
Introduction to Artificial Intelligence (AI) in Education	15%
Machine Learning Fundamentals	10%
Natural Language Processing (NLP) for Educational Content	15%
AI-Driven Content Creation and Curation	15%
Adaptive Learning Systems	15%
Ethics and Bias in AI for L&D	10%
Emerging Technologies and Future Trends	10%
Implementation and Best Practices	10%
	<b>100%</b>

The logo for AI CERTS, featuring a stylized 'A' icon followed by the text 'AI CERTS' and a registered trademark symbol.

**AI CERTS®**

**AI<sup>+</sup>**

Learning & Development  
Practitioner™

# Certification Modules

## Module 1

### **Introduction to Artificial Intelligence (AI) in Education**

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#### **1.1 Overview of Artificial Intelligence**

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#### **1.2 AI's Role in Education and Training**

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#### **1.3 Impact of AI on Educational Content Creation**

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**1.4 AI in Assessment and Feedback**

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**1.5 Ethical Considerations and Challenges**

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**Module 2**

**Machine Learning Fundamentals**

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**2.1 Introduction to Machine Learning**

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**2.2 Supervised Learning**

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**2.3 Unsupervised Learning**

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**2.4 Reinforcement Learning**

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**2.5 Machine Learning in Practice**

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**Module 3**

**Natural Language Processing (NLP)  
for Educational Content**

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**3.1 Fundamentals of NLP in Education**

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**3.2 Content Analysis and Enhancement**

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### **3.3 Personalized Learning and Adaptive Content**

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### **3.4 Assessment and Feedback Automation**

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## **Module 4**

# **AI-Driven Content Creation and Curation**

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## **4.1 AI in Generating Educational Content**

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## **4.2 Adaptive Learning Materials Creation**

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## **4.3 Dynamic Assessment Item Generation**

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## **4.4 Curating Educational Resources**

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## **4.5 Challenges and Ethical Considerations in AI-Driven Content**

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## **Module 5**

# **Adaptive Learning Systems**

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## **5.1 Foundations of Adaptive Learning**

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## **5.2 Designing Adaptive Learning Systems**

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## **5.3 Implementation Strategies**

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## **5.4 Assessment and Evaluation in Adaptive Systems**

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## **5.5 Ethical and Privacy Considerations**

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### **Module 6**

## **Ethics and Bias in AI for L&D**

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### **6.1 Understanding AI Ethics in L&D**

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### **6.2 Privacy Concerns in AI-Driven L&D**

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### **6.3 Bias and Fairness in AI Assessments**

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### **6.4 Ethical AI Use and Learner Engagement**

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### **6.5 Future Challenges and Opportunities**

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### **Module 7**

## **Emerging Technologies and Future Trends**

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### **7.1 Augmented Reality (AR) in Education**

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### **7.2 Virtual Reality (VR) in Learning Environments**

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## **7.3 AI-Driven Personalized Learning**

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## **7.4 Blockchain in Education**

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## **7.5 Emerging AI Technologies in Educational Research and Development**

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### **Module 8**

## **Implementation and Best Practices**

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### **8.1 Strategic Planning for AI Integration**

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### **8.2 Selecting the Right AI Tools**

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### **8.3 Implementing AI Solutions**

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### **8.4 Monitoring and Evaluating Impact**

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### **8.5 Ethical Use and Data Governance**

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## Additional Module

# AI Agents for Learning & Development

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1. Understanding AI Agents

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2. Case Study

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3. Hands-On Practice with AI Agents

# Certification Outcome

Upon successful completion of AI+ Learning & Development Practitioner certification, participants will possess a comprehensive understanding of AI in education, including foundational concepts and practical applications across modules such as Machine Learning Fundamentals, Natural Language Processing for Educational Content, and AI-Driven Content Creation and Curation. They will develop proficiency in designing adaptive learning systems, critically analyzing the ethical implications and biases in AI applications for learning and development, and exploring emerging technologies shaping the future of educational practices. Furthermore, they will learn best practices for implementing AI solutions in educational settings and culminate their learning journey with a capstone project, where they will apply their knowledge and skills to develop a real-world AI-driven educational solution, engaging in peer review to refine and enhance their project outcomes.



## Market Insight

The education sector is experiencing a surge in AI adoption to personalize learning and enhance outcomes. This trend is driving the uptake of Adaptive Learning Systems and AI-powered content creation tools. However, stakeholders are increasingly mindful of ethical considerations and biases. Consequently, there's a growing demand for skilled AI professionals, and collaboration between industry and academia is intensifying to drive innovation in educational AI solutions.



## Value Proposition

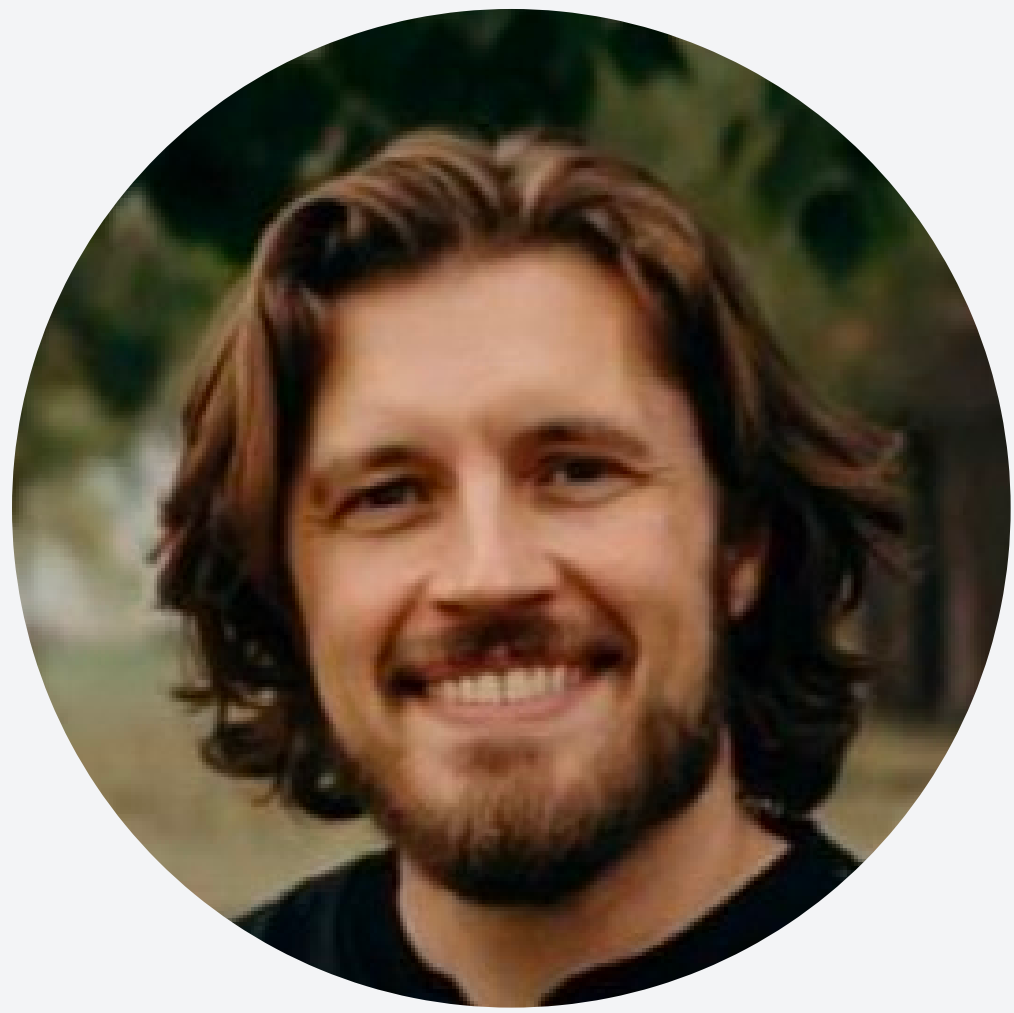
Our AI+ Learning & Development Practitioner course empowers participants with essential AI skills tailored for education. From Machine Learning to Adaptive Learning Systems, learners gain expertise to personalize learning experiences effectively. Emphasizing ethics and transparency, graduates emerge as adept AI practitioners ready to innovate and excel in Learning & Development.



## Additional Features

Our course provides hands-on experience through a practical exercises, allowing participants to apply their newfound skills in a real-world educational setting. This practical component fosters creativity and problem-solving abilities, ensuring graduates are well-prepared to tackle the challenges of implementing AI solutions in diverse learning environments.

# AI Experts



## Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



## Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



## J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



## Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)



## Contact

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