

Certified Agentic AI L&D Professional

OEM: Global Skill Development Council • Code: CERTIFIED_AGENTIC_AI_L_D_PROFESSIONAL



COURSE DESCRIPTION

Become a Certified Agentic AI L&D Professional and master Agentic AI for learning and development, AI-powered instructional design, intelligent learning assistants, personalized learning experiences, workforce upskilling, AI governance, and responsible AI adoption in corporate learning.

AUDIENCE PROFILE

- Learning and development professionals and instructional designers
- Corporate trainers and learning-experience designers
- Talent-development and capability-building teams
- L&D leaders adopting AI-driven learning
- HR professionals exploring agentic AI applications in HR and capability building
- Anyone pursuing a certification for agentic AI for learning and development to advance their career

PREREQUISITES

- There are no mandatory prerequisites for this agentic AI L&D certification. Familiarity with learning-and-development practices and a basic understanding of AI will be beneficial, but no formal AI background is required. The program builds from the foundations of Agentic AI and applies them directly to real learning design and workforce capability workflows.

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- Understand the fundamentals of Agentic AI and its applications in modern learning & development.
- Explain Agentic AI architectures, reasoning, memory, and autonomous learning workflows.
- Apply Agentic AI to learning needs analysis, skills-gap assessment, curriculum design, and content creation.
- Deliver personalized learning through AI tutors, adaptive learning agents, and intelligent assessments.
- Automate learning operations by integrating Agentic AI with LMS, LXP, and learning workflows.
- Leverage Agentic AI for learning analytics, competency mapping, workforce capability building, and training ROI.
- Ensure ethical AI, learner privacy, accessibility, and responsible AI adoption in learning environments.
- Implement intelligent agentic AI solutions to transform enterprise learning across the employee development lifecycle.

Module 1: Delivery, LMS, and Learning Operations

- Agentic Automation of Learning Administration
- Integration with LMS and LXP Platforms
- Scheduling, Enrollment, and Communication Agents
- Content Localization and Accessibility

Module 2: Architecture of AI Agents and Multi-Agent Systems

- Anatomy of an AI Agent: LLM Core, Memory, Planning, and Tool Use
- Reasoning and Planning Techniques (ReAct, Chain-of-Thought, Reflection)
- Memory Systems: Short-Term, Long-Term, and Retrieval-Augmented Generation (RAG)
- Tool Calling, Function Calling, and API/Data Integration
- Multi-Agent Orchestration, Collaboration, and Workflow Design
- Popular Agentic Frameworks (LangChain, LangGraph, AutoGen, CrewAI)

Module 3: Agentic AI in Learning Design and Content

- Autonomous Needs Analysis and Skills-Gap Identification
- AI-Driven Curriculum and Learning-Path Design
- Automated Course, Assessment, and Content Generation
- Microlearning, Job Aids, and Multimodal Content

Module 4: Personalized and Adaptive Learning

- Adaptive Learning Paths and Recommendations
- AI Tutors, Coaches, and Conversational Learning Agents
- Personalized Assessments and Real-Time Feedback
- Learner Sentiment and Engagement Monitoring

Module 5: Learning Analytics and Impact Measurement

- Autonomous Learning Analytics and Dashboards
- Skills Tracking and Competency Mapping
- ROI and Business-Impact Measurement (Kirkpatrick)
- Predictive Insights for Workforce Capability

Module 6: Ethics, Privacy, and Responsible AI in L&D

- Fairness, Inclusion, and Accessibility in AI Learning
- Learner Data Privacy and Consent
- Transparency, Trust, and Human Oversight
- Responsible Use and Academic Integrity