

Certified Agentic AI Expert™ Interactive Live Training

2.5 Days

DURATION

14

MODULES

77

TOPICS

COURSE OVERVIEW

Advance your expertise with the Certified Agentic AI Expert™ Live Training (ILT) Program, a specialised Agentic AI Live Course designed for professionals who want hands-on mastery in autonomous AI systems. This Instructor-Led Training (ILT) provides real-time guidance, interactive sessions, and practical implementation strategies to help you design, refine, and deploy intelligent AI agents confidently. In this Agentic AI Live Training, you will explore advanced agent architectures, adaptive algorithms, multi-agent collaboration, and context-aware decision-making systems. Through collaborative exercises and real-world case studies, you will learn how to automate complex workflows, enhance customer experiences, and build scalable agent-driven AI solutions. This Agentic AI Instructor-Led Course combines expert mentorship with experiential learning, ensuring you gain practical skills—not just theory. Enroll in the Certified Agentic AI Expert™ ILT today and position yourself as a leader in autonomous, agent-based AI innovation.

WHO THIS COURSE IS FOR

- Working Professionals — Who prefer structured, instructor-led learning with real-time Q&A.
- Career Changers — Looking for guided, hands-on training with expert mentorship.
- Team Leads & Managers — Who need deep understanding to lead technology initiatives.
- Entrepreneurs & Founders — Planning to build products or services and want expert guidance.
- Students & Fresh Graduates — Seeking a competitive edge with a globally recognized certification.
- Consultants & Advisors — Who need to quickly build expertise with structured training.

TOOLS AND REQUIREMENTS

- Basic understanding of technology concepts
- A computer with stable internet connection for live sessions
- Webcam and microphone recommended for interactive participation
- No prior specialized experience necessary — the program starts from foundations

LEARNING OBJECTIVES

What You Will Learn

- AI Agents - Introduction
- Agentic AI Paradigm
- Agent Capabilities
- Automation and Workflow Optimization
- AI Strategy for Businesses
- Frameworks
- Post Deployment
- AI Governance & Risk Management
- Evaluating AI Agent Performance (Business Metrics)
- AI Agents Security

COURSE SYLLABUS

14 Modules, 77 Topics

MODULE 1

01

AI Agents - Introduction

TOPICS

- Definition of AI Agents
- Importance of AI Agents in Modern AI
- Real-World Applications
- How AI Agents Work
- Types of Environments for AI Agents
- Evolution of AI Agents

02

Agentic AI Paradigm

TOPICS

- Introduction to the Agentic AI Paradigm
- Key Characteristics of Agentic AI
- Core Components of Agentic AI Systems
- Comparison with Other AI Paradigms
- Architectures and Frameworks in Agentic AI
- Challenges in Developing Agentic AI Systems
- Economic Impact

03

Agent Capabilities

TOPICS

- Perception and Recognition Capability
- Decision-Making and Problem Solving Capability
- Learning and Adaptation Capability
- Action and Interaction Capability
- Multimodal Functionality in AI Agents
- Tools and Frameworks for AI Agents
- Data Processing Capabilities
- Retrieval-Augmented Generation (RAGs)
- Database Integration for AI Agents (Examples: Supabase, Firebase, MongoDB, and PostgreSQL)
- Advanced Agent Capabilities (Adaptive and Self-Learning Agents, Collaboration in Multi-Agent Systems (MAS), Long-Term Memory and Context Awareness)

04

Automation and Workflow Optimization

TOPICS

- Introduction to AI Automation and Workflow Optimization
- Core Components of AI-Driven Workflow Optimization
- Types of Workflows Optimized by AI Agents and use case applications
- Automation Techniques Leveraged by AI Agents
- Tools and Platforms for AI Workflow Automation (e.g., Zapier, UiPath, Blue Prism, n8n, Langgraph, pydantic)
- Advanced Capabilities in AI Automation (Dynamic Task Scheduling and Context-Aware Automation, Proactive Agents, Adaptive Workflows)

05

AI Strategy for Businesses

TOPICS

- Identifying AI opportunities in your business
- Aligning AI implementation with business goals
- Frameworks for AI adoption in organizations
- Overcoming common challenges in AI adoption

06

Frameworks

TOPICS

- Introduction
- HuggingFace
- Ollama+DeepSeekV3
- AutoGen
- LangChain
- CrewAI
- LangGraph
- Pydantic AI
- AutoGPT
- Comparison of frameworks

07

Post Deployment

TOPICS

- Monitoring, Evaluation, and Debugging
- AgentBench
- AgentOps
- LangSmith
- Langfuse
- Logfire in Pydantic AI
- Metrics
- Monitoring Demo

08

AI Governance & Risk Management

TOPICS

- How to assess AI risks in business operations
- Governance frameworks for responsible AI use
- Strategies for mitigating AI risks

09

Evaluating AI Agent Performance (Business Metrics)

TOPICS

- How to measure the success of AI Agents in business settings
- Key performance indicators (KPIs) for AI-driven automation
- Understanding AI reliability, efficiency, and user experience
- Case studies on AI performance evaluation

10

AI Agents Security

TOPICS

- Introduction to AI Agents Security
- Vulnerabilities & Mitigation
- Guardrails
- Tools

MODULE 11

11

Future Trends in Agentic AI

TOPICS

- Emerging technologies in AI Agents
- The role of AI Agents in the future of work
- Predictions for AI in the next 5–10 years
- How businesses can stay ahead in the AI revolution

MODULE 12

12

Ethical Design of AI Agents

TOPICS

- Ethical Design of AI Agents
- Addressing Challenges

MODULE 13

13

Technology Stack

TOPICS

- Technology Stack for Building Agentic AI Systems & Architecture

14

Use Cases

TOPICS

- Siemens AG
- Mayo Clinic
- JPMorgan Chase
- Amazon
- BP (British Petroleum)
- Pearson
- Netflix

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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