Agentic AI Foundations (AAIF)

ID AAIF **Price** CHF 750.—(excl. VAT) **Duration** 1 days

Who should attend

This course is intended for:

- Software developers new to Agentic AI seeking foundational knowledge and practical implementation skills
- Technical professionals exploring AI capabilities and interested in core components and applications of agentic AI
- Development teams evaluating Agentic AI solutions and needing to differentiate between agent types
- AWS Users expanding into Agentic AI, including current users of Amazon Q Developer, Amazon Q Business, and Amazon Bedrock Agents

Prerequisites

We recommend that attendees of this course have:

- Generative AI Essentials or equivalent work experience
- Basic AWS knowledge and software development experience

Course Objectives

In this course, you will learn to:

- Summarize the evolution of Agentic AI and define what makes something "agentic"
- Identify core components of agentic systems: goals, memory, tools, and environment
- Distinguish between workflow, autonomous, and hybrid agents
- Compare AWS service options for Agentic AI (Specialized, Managed, and DIY approaches)
- Describe capabilities and use cases of Amazon Q Developer, Amazon Q Business, and Kiro
- Explain Amazon AgentCore and Amazon Bedrock Agents core functionalities
- Identify basic implementation patterns for Agentic AI
- Describe observability and interoperability patterns for production agentic AI systems

Course Content

Module 1: From LLMs to Agents

- Understanding Large Language Models (LLMs)
- Innovations powering agents
- Evolution timeline from LLMs to Agents

Module 2: Exploring Agentic AI

- Understanding Agentic AI
- Types of AI agents
- Agentic AI applications

Module 3: Understanding Agentic AI Workflows

- Workflow patterns
- Amazon Bedrock flows overview
- Demo: Amazon Bedrock Flows

Module 4: Introducing Autonomous Agents

- How Autonomous Agents work
- ReAct
- ReWoo
- Multi-agent collaboration
- AWS Agentic AI solutions

Module 5: Amazon Q and Agentic Development Tools

- Amazon Q Developer
- Amazon Q Business
- Amazon Q in AWS Services
- Kiro: AI-powered IDE with spec-driven development
- Demo: Amazon Q

Module 6: Agentic AI with Amazon Bedrock

- Amazon Bedrock Agents
- Amazon Bedrock AgentCore
- Demo: Amazon Bedrock Agents
- Hands-on lab: Explore Amazon Bedrock Agents integrated with Amazon Bedrock Knowledge Bases and Amazon Bedrock Guardrails

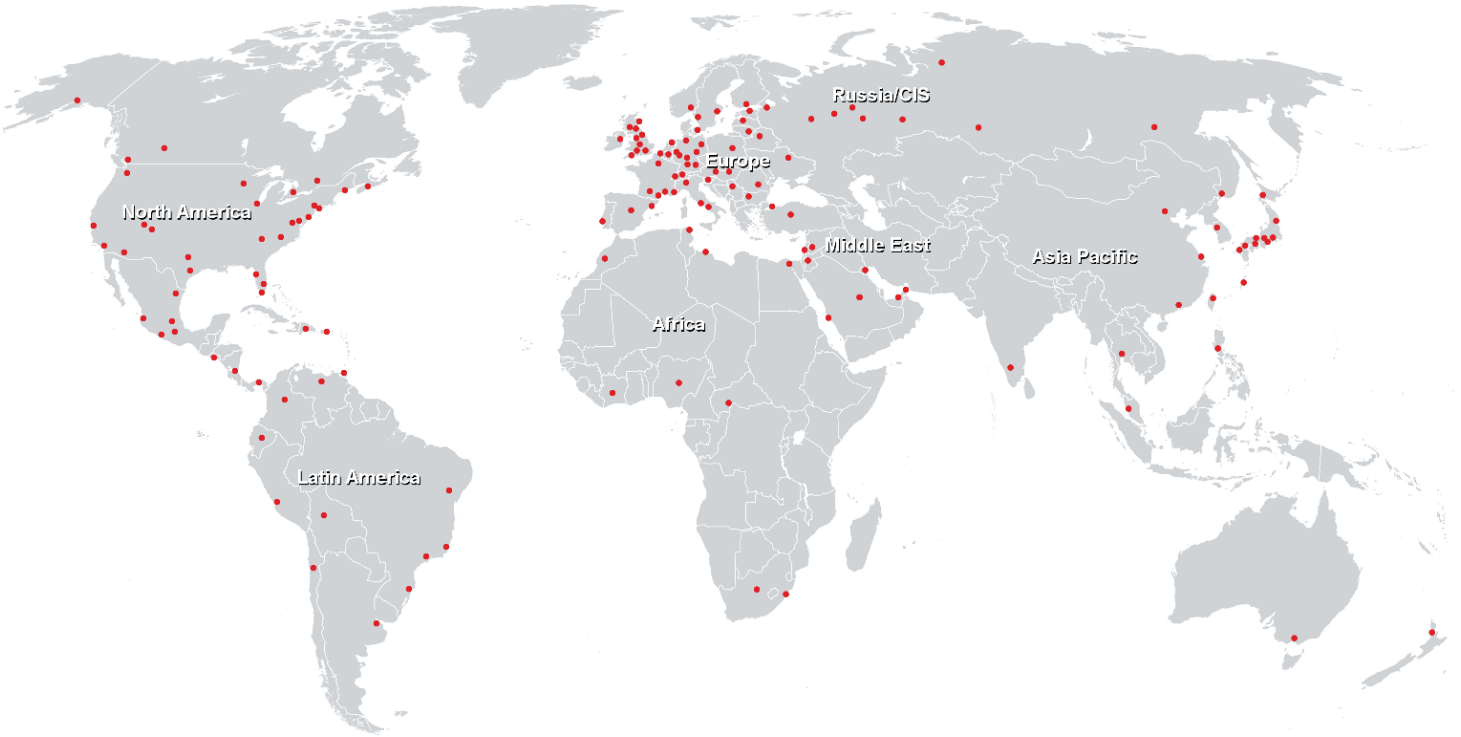
Module 7: Building DIY Solutions

- DIY solutions
- Observability and Monitoring
- Agent Interoperability

Module 8: Course Wrap-up

- Next steps and additional resources
- Course summary

Training Centres worldwide





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