

Course : Agentic AI Foundations

Official AWS Course

Practical course - 1d - 7h00 - Ref. AWO

Price : 850 € E.T.

NEW

In this course, you'll explore the principles of agent-based AI and learn how to design autonomous systems using AWS services, including Amazon Q, Kiro, Amazon Bedrock Agents, and Amazon Bedrock AgentCore.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understanding the Evolution of Agent-Based AI, Its Principles, and Its Fundamental Components
- ✓ Distinguish between the different types of agents: workflow-based, standalone, and hybrid
- ✓ Compare the different AWS approaches and services for agent-based AI
- ✓ Understanding the Features and Use Cases of Amazon Q, Kiro, Amazon AgentCore, and Amazon Bedrock Agents
- ✓ Identify the main models for implementing and operating agent-based AI

Intended audience

Developers and technical professionals new to agent-based AI.

Prerequisites

Essential knowledge of generative AI or equivalent experience. Basic knowledge of AWS and experience in software development. Good written English skills.

Certification

This training course does not lead to an AWS certification.

[Comment passer votre examen ?](#)

Course schedule

PARTICIPANTS

Developers and technical professionals new to agent-based AI.

PREREQUISITES

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TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

1 From LLMs to Agents

- Understanding Large Language Models (LLMs).
- Innovations Behind the Agents.
- The Evolution of LLMs Toward Agents.

2 Discover Agent-Based AI

- Understanding Agent-Based AI.
- Types of AI Agents.
- Applications of Agent-Based AI.

3 Understanding Agent-Based AI Workflows

- Workflow Templates.
- Introducing Amazon Bedrock Flows.

Demonstration

Amazon Bedrock Flows.

4 Introduction to Autonomous Agents

- How Autonomous Agents Work.
- ReAct.
- ReWoo.
- Multi-agent collaboration.
- AWS Agent-Based AI Solutions.

5 Amazon Q and Agent Development Tools

- Amazon Q Developer.
- Amazon Q Business.
- Amazon Q in AWS Services.
- Kiro: An AI-based IDE and specification-driven development.

Demonstration

Amazon Q.

6 Agent-Based AI with Amazon Bedrock

- Amazon Bedrock Agents.
- Amazon Bedrock AgentCore.

Hands-on work

Exploring Amazon Bedrock Agents with Amazon Bedrock Knowledge Bases and Amazon Bedrock Guardrails.

7 Create Your Own Solutions

- Custom Solutions (DIY).
- Observability and Monitoring.
- Agent Interoperability.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

8 Course Conclusion

- Next Steps and Additional Resources.
- Course Summary.

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Dates and locations

REMOTE CLASS

2026 : 11 Dec.

2027 : 19 Mar., 11 June, 17 Sep., 3 Dec.

PARIS LA DÉFENSE

2026 : 11 Dec.

2027 : 19 Mar., 11 June, 17 Sep., 3 Dec.