

Course : Develop AI Apps and Agents on Azure (Microsoft AI-103)

Practical course - 4d - 28h00 - Ref. D3A

Price : 3130 € E.T.

★★★★☆ 4,4 / 5

NEW

In this training course, you'll learn how to build AI applications with Microsoft Foundry, including generative AI, AI agents, knowledge connections, and multimodal capabilities.

Teaching objectives

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

- ✓ Design and Develop Generative AI Applications on Azure
- ✓ Create and Integrate AI Agents into Applications
- ✓ Use Microsoft Foundry templates and tools
- ✓ Develop multimodal solutions (text, voice, images)
- ✓ Leveraging Data and Knowledge in AI Applications

Intended audience

Software engineers who want to design, manage, and deploy AI solutions using Microsoft Foundry, with a basic understanding of Python and experience using APIs and SDKs on Azure.

Prerequisites

Basic knowledge of Python and the use of Azure APIs/SDKs, along with a good understanding of written English.

Practical details

Teaching methods

The training session will be conducted in French. Official course materials are available in digital format and in English.

Course schedule

PARTICIPANTS

Software engineers who want to design, manage, and deploy AI solutions using Microsoft Foundry, with a basic understanding of Python and experience using APIs and SDKs on Azure.

PREREQUISITES

Basic knowledge of Python and the use of Azure APIs/SDKs, along with a good understanding of written English.

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.

1 Developing Generative AI Applications on Azure

- Plan and Prepare for the Development of AI Solutions on Azure
- Select, deploy, and evaluate the models.
- Develop a chat app using generative AI.
- Develop generative AI applications using tools.
- Optimizing the performance of generative AI models.
- Implement a responsible generative AI solution.

Hands-on work

Explore Azure AI Foundry, Create a chatbot with Azure AI Foundry, Use your own data with Retrieval-Augmented Generation (RAG).

2 Developing AI Agents on Azure

- Develop AI agents using Microsoft Foundry and Visual Studio Code.
- Integrate custom tools into your agent.
- Integrate MCP tools with Azure AI agents.
- Create knowledge-enriched AI agents with Foundry IQ.
- Integrate your agent with Microsoft 365.
- Create agent-driven workflows with Microsoft Foundry.
- Develop an AI agent using the Microsoft Agent Framework.
- Implementing a multi-agent solution using the Microsoft Agent Framework.
- Discover Azure AI agents with A2A.

3 Develop Natural Language Processing Solutions on Azure

- Analyze text using Azure Language in Foundry Tools.
- Develop a text analysis agent using the Azure Language MCP server.
- Develop a generative AI application with voice capabilities.
- Build applications with speech recognition using Azure Speech.
- Develop a voice agent using the Azure Speech MCP server
- Develop an Azure Speech Voice Live agent in Microsoft Foundry.
- Translate text and speech using Microsoft Foundry Tools.

4 Extracting Information from Visual Data on Azure

- Develop a generative AI application with computer vision capabilities.
- Generate images using AI.
- Create videos with Microsoft Foundry.
- Analyze images with Content Understanding.
- Create a multimodal analytics solution with Azure Content Understanding.
- Create an Azure Content Understanding client application.
- Extract data using Azure Document Intelligence.
- Create a knowledge mining solution with Azure AI Search.

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.

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.

Options

Certification : 200 € H.T.

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Dates and locations

REMOTE CLASS

2026 : 15 Dec.

2027 : 19 Jan., 13 Apr., 6 July, 19 Oct.

LYON

2027 : 19 Jan., 6 July, 19 Oct.

BORDEAUX

2027 : 19 Jan., 6 July

NANTES

2027 : 13 Apr., 19 Oct.

STRASBOURG

2027 : 19 Jan., 6 July

PARIS LA DÉFENSE

2026 : 15 Dec.

2027 : 19 Jan., 13 Apr., 6 July, 19 Oct.

AIX-EN-PROVENCE

2027 : 19 Jan., 6 July

LILLE

2027 : 19 Jan., 6 July

RENNES

2027 : 19 Jan., 6 July

TOULOUSE

2027 : 19 Jan., 6 July