

Training Program

AI-901: Introduction to AI in Azure

(Microsoft AI-901 Certification Preparation)

Published on 15/04/2026

DESCRIPTION OF THE TRAINING:

This one-day training will allow you to discover **the fundamentals of artificial intelligence (AI)** as well as the **Microsoft Azure services** that can be mobilized to design AI solutions.

It combines conceptual inputs with the first technology skills essential to understand and effectively approach the implementation of artificial intelligence solutions on Microsoft Azure.

EDUCATIONAL OBJECTIVES:

At the end of this training, participants will be able to:

- Know AI concepts for developers and technology professionals
- Get started with AI applications and agents on Azure

TEACHING METHODS:

- This training will mainly consist of theory and technical workshops that will allow you to be quickly operational.
- Support: Official Microsoft course materials will be provided to participants in electronic format.
- Evaluation: The achievements are evaluated throughout the training by the trainer (regular questions, practical work, MCQs or other methods).
- Trainer: all led by an experienced consultant-trainer, with field experience, and Microsoft Certified Trainer accredited.
- Satisfaction: at the end of the training, each participant answers an evaluation questionnaire which is then analysed with a view to maintaining and improving the quality of our training.
- Follow-up: one attendance sheet for each half-day of attendance is signed by each participant.
- This training can be provided in an inter-company or intra-company format on request and in face-to-face or distance mode.

TRAINING PROGRAM:

Discover AI concepts

- Discover the types of solutions that AI can make possible and considerations for responsible AI practices.

Discover AI and generative agents

- Describe the fundamental concepts of generative AI.
- Explain how large language models (LLMs) work.
- Thinking about creating effective queries for LLMs.
- Describe the fundamental concepts of agents and agentic AI solutions.

Learn about natural language processing concepts

- Explore the concepts and techniques of text analysis.

Learn about AI speech recognition concepts

- Identify different application scenarios for AI speech
- Describe how speech recognition works
- Describe how text-to-speech works

Discover computer vision concepts

- Identify different types of computer vision tasks
- Describe how filters are used in image analysis
- Describe the key features of a convolutional neural network (CNN)
- Describe the main features of a vision transformer (ViT)
- Describe how generative AI can be used to create images

Learn about AI-powered insights extraction concepts

- Understand the key concepts of information extraction.
- Describe how optical character recognition (OCR) extracts text from images.
- Explain how form extraction associates extracted text with data fields.

Get started with generative AI and agents in Azure

- Describe how an agent encapsulates model behavior using system statements and tools
- Identify the appropriate model for a job using the Foundry Model Catalog
- Deploy a model to the Foundry portal and replicate Playground parameters in code
- Create and test an agent in the Foundry portal
- Use an agent in the Playground to validate prompts and behavior
- Invoke an agent from code using the Foundry Project API

Introduction to text analytics on Azure

- Use Microsoft Foundry features for text analytics

Get started with speech recognition in Azure

- Use the Azure Speech speech-to-text API for speech recognition.
- Use the Azure Speech text-to-speech API for text-to-speech
- Use the Voice Live features of Azure Speech

Get started with computer vision on Azure

- Explore modal models for image analysis
- Understand image generation features
- Understanding Video Generation Features

Get started with AI-powered information extraction in Azure

- Identify Foundry tools for information extraction
- Describe Azure Vision information extraction capabilities.
- Describe Azure Content Understanding information extraction capabilities
- Describe Azure Document Intelligence information extraction capabilities.
- Describe the information extraction capabilities of Azure AI Search

PREREQUISITES:

No specific prerequisites.

PRE-CERTIFICATION :

This course paves the way for the Microsoft "AI-900 Microsoft Azure AI Fundamentals" certification.

DURATION: 1 day (7 hours)

TARGET: All audiences

LEVEL: Beginner