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Azure AI Fundamentals Certification Training (AI-901)

Formerly AI-900

1 day (7 hours)

Overview

The Microsoft Certified Azure AI Fundamentals (AI-901) certification validates your understanding of key artificial intelligence concepts and your ability to implement fundamental AI solutions using Microsoft Foundry.

Our AI-901 training will provide you with a solid foundation in AI concepts, generative models, agents, natural language processing, computer vision, speech, and information extraction.

You'll learn to identify use cases suited to different types of AI workloads and to apply the principles of responsible AI: fairness, reliability, security, privacy, inclusivity, transparency, and accountability.

The course will also teach you how to use Microsoft Foundry to deploy a model, design prompts, create a simple agent, and leverage the available services for text, speech, computer vision, and information extraction.

By the end of the course, you'll be able to identify AI solutions suited to a specific need, implement simple scenarios with Microsoft Foundry, and effectively prepare for the AI-901: Microsoft Azure AI Fundamentals exam.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the fundamentals of artificial intelligence and responsible AI
- Identify the main use cases for machine learning, generative AI, agents, NLP, computer vision, and speech
- Understand how generative models work and the main deployment options
- Use Microsoft Foundry to deploy and test AI models
- Create prompts, a lightweight application, and a simple agent
- Prepare to take the Microsoft Azure AI Fundamentals (AI-901) certification exam

Target Audience

- Beginners interested in learning about AI and Microsoft Azure services
- Business professionals looking to understand the uses and limitations of artificial intelligence
- IT, cloud, or data professionals looking to build a foundational technical understanding of AI on Azure
- Developers new to building AI solutions with Microsoft Foundry

Prerequisites

- Familiarity with the general principles of computing and the cloud
- Basic knowledge of Python and programming logic
- Some familiarity with Microsoft Azure resources is recommended

Technical Prerequisites

- Computer running Windows 10 or 11, macOS, or Linux, with at least 8 GB of RAM
- A Microsoft account that allows access to an Azure training environment
- Microsoft Foundry environment configured with the resources needed for the workshops
- Python environment or notebook provided for exercises using the SDK and lightweight applications

Curriculum for our Microsoft Azure AI Fundamentals (AI-901) Certification Training

[Day 1 - Morning]

Understanding the concepts and capabilities of artificial intelligence

- Understand the fundamentals of artificial intelligence, machine learning, and generative AI
- Applying the principles of responsible AI: fairness, reliability, security, privacy, inclusivity, transparency, and accountability
- Understand the general functioning of generative models, their capabilities, and their configuration parameters

- Identify use cases for generative AI, AI agents, text processing, speech processing, computer vision, and information extraction
- Understand the main text analysis techniques: keyword extraction, entity extraction, sentiment, and summarization
- Identify the capabilities of speech recognition and synthesis, computer vision, multimodal models, and image generation

[Day 1 - Afternoon]

Implement AI solutions with Microsoft Foundry

- Explore Microsoft Foundry and its key components for building AI solutions
- Deploy a model, tune its parameters, and interact with it from the Foundry portal
- Design effective system prompts and user prompts for a generative AI application
- Create and test a lightweight chat application and a simple agent using Foundry tools and SDKs
- Implement use cases involving text, speech, vision, and multimodal models
- Use Azure Content Understanding to extract information from documents, images, audio files, and videos
- Hands-on workshop: Deploy a model in Microsoft Foundry, build a prompt, create a and test a multimodal extraction or analysis scenario

Target Audience

This training is intended for both individuals and companies—large and small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.