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Register

Azure AI Engineer Associate Certification Training (AI-102)

4 days (28 hours)

Overview

Microsoft Certified: Azure AI Engineer Associate (AI-102) is a certification offered by Microsoft. It validates the ability to design, implement, and integrate artificial intelligence solutions on the Azure platform.

Our Azure AI-102 training course will enable you to master the main Azure services dedicated to AI in order to design comprehensive solutions integrating computer vision, natural language processing, intelligent search, and generative AI.

You will learn how to develop AI solutions using Azure AI APIs and SDKs, integrate these services into cloud applications, and apply best practices in architecture, security, and governance.

By the end of the training, you will be able to design and deploy robust Azure AI solutions, integrate AI services into existing applications, and effectively prepare for the AI-102 certification exam.

Like all our training courses, this one is based on the latest Azure AI services reference framework and focuses on a practical and operational approach.

Objectives

- Design artificial intelligence solutions on Azure.
- Implement computer vision and NLP services.
- Integrate Azure AI Search and generative AI services.
- Apply the principles of responsible AI.
- Prepare for the AI-102 certification exam.

Target audience

- Python or C# developers
- Cloud engineers or AI engineers
- Technical architects
- Professionals who want to design and integrate AI solutions on Azure

Prerequisites

- Development experience (Python or C#)
- Basic knowledge of the Azure platform
- General understanding of artificial intelligence

Azure AI Engineer Associate (AI-102) program

[Day 1 - Morning]

Role and responsibilities of the Azure AI Engineer

- Introduction to the Azure AI Engineer Associate role
- Scope and objectives of the AI-102 certification
- Differences between Data Scientist, ML Engineer, and AI Engineer
- Overview of Azure AI services
- Best practices for designing AI solutions
- Hands-on workshop: Analysis of a business scenario.

[Day 1 - Afternoon]

Architecture of Azure AI solutions

- Cloud architecture principles for AI
- Selecting services based on requirements
- Integrating AI services into an application
- Scalability and performance
- Security and governance
- Hands-on workshop: Designing an Azure AI architecture.

Development with Azure AI SDK and API

- Using Azure AI SDKs
- Calls to REST APIs
- Key and endpoint management
- Error handling
- Development best practices
- Hands-on workshop: Calling an Azure AI service.

Fundamentals of computer vision

- Principles of computer vision
- Object classification and detection
- Text recognition (OCR)
- Business use cases
- Choosing an Azure service
- Hands-on workshop: Image analysis with Azure Vision.

Azure Vision and Document Intelligence

- Presentation of Azure Vision services
- Document and form analysis
- Structured data extraction
- Business use cases
- Limitations and best practices
- Hands-on workshop: Extracting data from a document.

Optimization and integration of Vision solutions

- Performance optimization
- Data security
- Application integration
- Monitoring and tracking
- Best practices for deployment
- Hands-on workshop: Integrating Vision into an application.

Natural language processing (NLP)

- Fundamentals of NLP
- Text analysis and entity extraction
- Sentiment analysis
- Text classification
- Business use cases
- Hands-on workshop: Text analysis with Azure Language.

Azure Speech and Conversational AI

- Speech recognition and synthesis
- Azure Speech services
- Conversational use cases
- Application integration
- Quality and limitations
- Hands-on workshop: Voice to text and vice versa.

Azure AI Search

- Introduction to Azure AI Search
- Indexing and enrichment
- Semantic search
- Integration with Azure AI
- Enterprise use cases
- Hands-on workshop: Creating an intelligent search engine.

[Day 4 - Morning]

Azure OpenAI and generative AI

- Introduction to Azure OpenAI
- Use cases for generative AI
- Integration into an application
- Prompt engineering
- Limitations and best practices
- Hands-on workshop: Calling a generative model.

[Day 4 - Afternoon]

Responsible AI, security, and compliance

- Principles of responsible AI
- Bias management
- Data security
- Compliance and governance
- Microsoft best practices
- Hands-on workshop: Risk analysis of an AI solution.

Preparation for AI-102 certification

- Exam structure and objectives
- Areas assessed
- Types of questions
- Common pitfalls
- Strategies for success

- Practical workshop: Preparation for the mock exam + correction.

Companies concerned

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives 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 be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and discussion sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

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