



Course AI-102T00-A: Designing and Implementing a Microsoft Azure AI Solution

Course Duration: 4 days (32 hours)

Level: Intermediate

Overview

AI-102 Designing and Implementing an Azure AI Solution is intended for software developers wanting to build AI infused applications that leverage Azure AI Services, Azure AI Search, and Azure OpenAI. The course will use C# or Python as the programming language.

Audience

This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Azure AI Services, Azure AI Search, and Azure OpenAI. They are familiar with C# or Python and have knowledge on using REST-based APIs to build computer vision, language analysis, knowledge mining, intelligent search, and generative AI solutions on Azure.

Course Syllabus

- **Learning Path 1:** Get started with Azure AI Services
 - Plan and prepare to develop AI solutions on Azure
 - Create and consume Azure AI services
 - Secure Azure AI services
 - Monitor Azure AI services
 - Deploy Azure AI services in containers
 - Use AI responsibly with Azure AI Content Safety
- **Learning Path 2:** Create computer vision solutions with Azure AI Vision
 - Analyze images
 - Classify images
 - Detect objects in images
 - Detect, analyze, and recognize faces
 - Read Text in images and documents with the Azure AI Vision Service
 - Analyze video
- **Learning Path 3:** Develop natural language processing solutions with Azure AI Services
 - Analyze text with Azure AI Language

- Create question answering solutions with Azure AI Language
 - Build a conversational language understanding model
 - Create a custom text classification solution
 - Custom named entity recognition
 - Translate text with Azure AI Translator service
 - Create speech-enabled apps with Azure AI services
 - Translate speech with the Azure AI Speech service
- **Learning Path 4:** Implement knowledge mining with Azure AI Search
 - Create an Azure AI Search solution
 - Create a custom skill for Azure AI Search
 - Create a knowledge store with Azure AI Search
 - Implement advanced search features in Azure AI Search
 - Search data outside the Azure platform in Azure AI Search using Azure Data Factory
 - Maintain an Azure AI Search solution
 - Perform search reranking with semantic ranking in Azure AI Search
 - Perform vector search and retrieval in Azure AI Search
- **Learning Path 5:** Develop solutions with Azure AI Document Intelligence
 - Plan an Azure AI Document Intelligence solution
 - Use prebuilt Document intelligence models
 - Extract data from forms with Azure Document intelligence
 - Create a composed Document intelligence model



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Course Overview

Step into the future of technology with the AI-102T00-A: Designing and Implementing a Microsoft Azure AI Solution course; your pathway to building intelligent applications powered by Microsoft Azure. Whether you're passionate about artificial intelligence or already working in AI space, this course will equip you with the skills to design, build, and deploy AI solutions at scale.

In this hands-on course, you'll explore how to work with Azure Cognitive Services, Azure Machine Learning, and conversational AI tools to bring powerful, real-world AI applications to life. From creating smart bots to building computer vision and natural language processing (NLP) solutions, you'll learn how to design responsible and scalable AI systems that make a meaningful impact.

This course also prepares you for the Microsoft Certified: Azure AI Engineer Associate (AI-102) certification, opening doors to exciting roles in AI development and cloud-based innovation.

Mode Of Delivery

Public

- Live Training (Duration: 32Hours)
- Per Participant

Self-paced

- Access to Microsoft content via Microsoft learn.
- Consultation with Trainers.
- Flexible video access.
- Access to exam preparation.
- Certificate of Completion.

