Training: Microsoft
AI-103T00: Develop AI apps and agents on Azure

Microsoft Partner

TRAINING GOALS:

This course is intended for software developers wanting to build AI infused applications that leverage Microsoft Foundry. Topics include developing generative AI apps, building AI agents, and solutions that implement knowledge connections or tools in your agentic applications. This course also covers multimodal capabilities and understanding of complex content.

Audience Profile:
This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Microsoft Foundry. They are familiar with Python and have knowledge on using APIs and SDKs to build agents and generative AI solutions on Azure.

CONSPECT:

- Develop generative AI apps in Azure
  - Module 1: Plan and prepare to develop AI solutions on Azure
  - Module 2: Select, deploy, and evaluate Microsoft Foundry models
  - Module 3: Develop a generative AI chat app with Microsoft Foundry
  - Module 4: Develop generative AI apps that use tools
  - Module 5: Optimize generative AI model performance with Microsoft Foundry
  - Module 6: Implement a responsible generative AI solution in Microsoft Foundry
- Develop AI agents on Azure
  - Module 1: Develop AI agents with Microsoft Foundry and Visual Studio Code
  - Module 2: Integrate custom tools into your agent
  - Module 3: Integrate MCP Tools with Azure AI Agents
  - Module 4: Build knowledge-enhanced AI agents with Foundry IQ
  - Module 5: Integrate your agent with Microsoft 365
  - Module 6: Build agent-driven workflows using Microsoft Foundry
  - Module 7: Develop an AI agent with Microsoft Agent Framework
  - Module 8: Orchestrate a multi-agent solution using the Microsoft Agent Framework
  - Module 9: Discover Azure AI Agents with A2A

Compendium Centrum Edukacyjne Spółka z o.o.
ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70
BNP Paribas Bank Polska S.A.
EUR: PL 79 1600 1462 1853 6451 3000 0006
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- Develop natural language solutions in Azure
  - Module 1: Analyze text with Azure Language in Foundry Tools
  - Module 2: Develop a text analysis agent with the Azure Language MCP server
  - Module 3: Develop a speech-capable generative AI application
  - Module 4: Create speech-enabled apps with Azure Speech in Microsoft Foundry Tools
  - Module 5: Develop a speech agent with the Azure Speech MCP server
  - Module 6: Develop an Azure Speech Voice Live Agent in Microsoft Foundry
  - Module 7: Translate text and speech with Microsoft Foundry Tools
- Extract insights from visual data on Azure
  - Module 1: Develop a vision-enabled generative AI application
  - Module 2: Generate images with AI
  - Module 3: Generate videos with Microsoft Foundry
  - Module 4: Analyze images with Content Understanding
  - Module 5: Create a multimodal analysis solution with Azure Content Understanding
  - Module 6: Create an Azure Content Understanding client application
  - Module 7: Extract data with Azure Document Intelligence
  - Module 8: Create a knowledge mining solution with Azure AI Search

REQUIREMENTS:

No prerequisites specified at the course level. Individual LPs suggest: Familiarity with fundamental AI concepts, programming experience, familiarity with Azure and Azure portal.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Microsoft (course completion).

This course will help prepare you for the **Microsoft Certified: Azure AI Apps and Agents Developer Associate** certification, which is available through the Pearson VUE test centers.

TRAINER:

Microsoft Certified Trainer (MCT)

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