

PROFESSIONAL COURSE OUTLINE

Microsoft

AI-103

Azure AI Apps and Agents Developer Associate (beta)

This course is intended for software developers wanting to build AI infused applications that leverage Microsoft Foundry. Topics in this course 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.

Software Dev

Intermediate

Azure, Microsoft Foundry

PROGRAM CODE

AI-103

DELIVERY

Virtual, On-site, or Hybrid

DURATION

4 days

CERTIFICATION

Microsoft Certified: Azure AI Apps and Agents Developer Associate (beta)

AUDIENCE PROFILE

Who This Program Is For

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.

PROGRAM SUMMARY

What This Course Covers

As a candidate for this Microsoft Certification, you're an Azure AI engineer who builds, manages, and deploys agents and AI solutions that take advantage of Microsoft Foundry.

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.



Plan the next session

We can tune this outline around your delivery goals and team mix.

TALK TO US

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MODULE 1

Develop generative AI apps in Azure

Learn how to develop generative AI apps in Microsoft Foundry. (AI-3016)

- Plan and prepare to develop AI solutions on Azure
- Select, deploy, and evaluate Microsoft Foundry models
- Develop a generative AI chat app with Microsoft Foundry
- Develop generative AI apps that use tools
- Optimize generative AI model performance with Microsoft Foundry
- Implement a responsible generative AI solution in Microsoft Foundry

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MODULE 2

Develop AI agents on Azure

Learn how to develop AI agents on Azure using the Microsoft Foundry Agent Service and Microsoft Agent Framework. AI-3026

- Develop AI agents with Microsoft Foundry and Visual Studio Code
- Integrate custom tools into your agent
- Integrate MCP Tools with Azure AI Agents
- Build knowledge-enhanced AI agents with Foundry IQ
- Integrate your agent with Microsoft 365
- Build agent-driven workflows using Microsoft Foundry
- Develop an AI agent with Microsoft Agent Framework
- Orchestrate a multi-agent solution using the Microsoft Agent Framework
- Discover Azure AI Agents with A2A

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MODULE 3

Develop natural language solutions in Azure

Develop natural language solutions in Azure

- Analyze text with Azure Language in Foundry Tools
- Develop a text analysis agent with the Azure Language MCP server
- Develop a speech-capable generative AI application
- Create speech-enabled apps with Azure Speech in Microsoft Foundry Tools
- Develop a speech agent with the Azure Speech MCP server
- Develop an Azure Speech Voice Live Agent in Microsoft Foundry
- Translate text and speech with Microsoft Foundry Tools

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MODULE 4

Extract insights from visual data on Azure

Use generative AI vision and Content Understanding in Azure to extract insights from visual data.

- Develop a vision-enabled generative AI application
- Generate images with AI
- Generate videos with Microsoft Foundry
- Analyze images with Content Understanding
- Create a multimodal analysis solution with Azure Content Understanding
- Create an Azure Content Understanding client application
- Extract data with Azure Document Intelligence
- Create a knowledge mining solution with Azure AI Search

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