# DEVELOP AI SOLUTIONS IN AZURE (AI-102)

Course Code: 101000

Develop AI solutions in Azure is intended for software developers wanting to build AI infused applications that leverage Azure AI Foundry and other Azure AI services.

Develop AI solutions in Azure is intended for software developers wanting to build AI infused applications that leverage Azure AI Foundry and other Azure AI services. Topics in this course include developing generative AI apps, building AI agents, and solutions that implement computer vision and information extraction. The course will use C# or Python as the programming language.

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**Microsoft Azure Certification Video**

## Who Needs to Attend

This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Azure AI Foundry and other Azure AI services. They are familiar with C# or Python and have knowledge on using REST-based APIs and SDKs to build generative AI, computer vision, language analysis, and information extraction solutions on Azure.

## Prerequisites

Before attending this course, students must have:

- Knowledge of Microsoft Azure and ability to navigate the Azure portal

- Knowledge of either C# or Python
- Familiarity with JSON and REST programming semantics

To gain C# or Python skills, complete the free Take your first steps with C# or Take your first steps with Python learning path before attending the course.

If you are new to artificial intelligence, and want an overview of AI capabilities on Azure, consider completing the Azure AI Fundamentals certification before taking this one.

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| CLASSROOM LIVE | $2,995 USD | 5 Day |
|---|---|---|

## Classroom Live Outline

**Module 1: Develop generative AI apps in Azure**

- Plan and prepare to develop AI solutions on Azure
- Choose and deploy models from the model catalog in Azure AI Foundry portal
- Develop an AI app with the Azure AI Foundry SDK
- Get started with prompt flow to develop language model apps in the Azure AI Foundry
- Develop a RAG-based solution with your own data using Azure AI Foundry
- Fine-tune a language model with Azure AI Foundry
- Implement a responsible generative AI solution in Azure AI Foundry
- Evaluate generative AI performance in Azure AI Foundry portal

**Module 2: Develop AI agents on Azure**

- Get started with AI agent development on Azure
- Develop an AI agent with Azure AI Foundry Agent Service
- Integrate custom tools into your agent
- Develop a multi-agent solution with Azure AI Foundry Agent Service
- Integrate MCP Tools with Azure AI Agents
- Develop an AI agent with Microsoft Agent Framework
- Orchestrate a multi-agent solution using the Microsoft Agent Framework
- Discover Azure AI Agents with A2A

**Module 3: Develop natural language solutions in Azure**

- 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
- Develop an audio-enabled generative AI application
- Develop an Azure AI Voice Live agent

**Module 4: Develop computer vision solutions in Azure**

- Analyze images
- Read text in images
- Detect, analyze, and recognize faces
- Classify images
- Detect objects in images
- Analyze video
- Develop a vision-enabled generative AI application
- Generate images with AI

**Module 5: Develop AI information extraction solutions in Azure**

- Create a multimodal analysis solution with Azure AI Content Understanding
- Create an Azure AI Content Understanding client application
- Use prebuilt Document intelligence models
- Extract data from forms with Azure Document intelligence
- Create a knowledge mining solution with Azure AI Search


## Classroom Live Labs

- Lab : Get Started with Cognitive Services
- Lab : Manage Cognitive Services Security
- Lab : Monitor Cognitive Services
- Lab : Use a Cognitive Services Container
- Lab : Analyze Text
- Lab : Translate Text
- Lab : Recognize and Synthesize Speech
- Lab : Translate Speech
- Lab : Create a Language Understanding App
- Lab : Create a Language Understanding Client Application
- Lab : Use the Speech and Language Understanding Services
- Lab : Create a QnA Solution
- Lab : Create a Bot with the Bot Framework SDK
- Lab : Create a Bot with Bot Framework Composer
- Lab : Analyze Images with Computer Vision
- Lab : Analyze Video
- Lab : Classify Images with Custom Vision
- Lab : Detect Objects in Images with Custom Vision
- Lab : Detect, Analyze, and Recognize Faces
- Lab : Read Text in Images
- Lab : Extract Data from Forms

- Lab : Create an Azure Cognitive Search solution
- Lab : Create a Custom Skill for Azure Cognitive Search
- Lab : Create a Knowledge Store with Azure Cognitive Search

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Course Code: 101000

| VIRTUAL CLASSROOM LIVE | $2,995 USD | 5 Day |
| --- | --- | --- |

Virtual Classroom Live Outline

**Module 1: Develop generative AI apps in Azure**

- Plan and prepare to develop AI solutions on Azure
- Choose and deploy models from the model catalog in Azure AI Foundry portal
- Develop an AI app with the Azure AI Foundry SDK
- Get started with prompt flow to develop language model apps in the Azure AI Foundry
- Develop a RAG-based solution with your own data using Azure AI Foundry
- Fine-tune a language model with Azure AI Foundry
- Implement a responsible generative AI solution in Azure AI Foundry
- Evaluate generative AI performance in Azure AI Foundry portal

**Module 2: Develop AI agents on Azure**

- Get started with AI agent development on Azure
- Develop an AI agent with Azure AI Foundry Agent Service
- Integrate custom tools into your agent
- Develop a multi-agent solution with Azure AI Foundry Agent Service
- Integrate MCP Tools with Azure AI Agents
- Develop an AI agent with Microsoft Agent Framework
- Orchestrate a multi-agent solution using the Microsoft Agent Framework
- Discover Azure AI Agents with A2A

**Module 3: Develop natural language solutions in Azure**

- Analyze text with Azure AI Language
- Create question answering solutions with Azure AI Language
- Build a conversational language understanding model
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- 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
- Develop an audio-enabled generative AI application
- Develop an Azure AI Voice Live agent

**Module 4: Develop computer vision solutions in Azure**

- Analyze images
- Read text in images
- Detect, analyze, and recognize faces
- Classify images
- Detect objects in images
- Analyze video
- Develop a vision-enabled generative AI application
- Generate images with AI

**Module 5: Develop AI information extraction solutions in Azure**

- Create a multimodal analysis solution with Azure AI Content Understanding
- Create an Azure AI Content Understanding client application
- Use prebuilt Document intelligence models
- Extract data from forms with Azure Document intelligence
- Create a knowledge mining solution with Azure AI Search

## Virtual Classroom Live Labs

- Lab : Get Started with Cognitive Services
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Jan 12 - 16, 2026 | 9:00 AM - 5:00 PM EST

Feb 2 - 6, 2026 | 9:00 AM - 5:00 PM EST

Mar 16 - 20, 2026 | 9:00 AM - 5:00 PM EDT

May 18 - 22, 2026 | 9:00 AM - 5:00 PM EDT

Jul 13 - 17, 2026 | 9:00 AM - 5:00 PM EDT

Sep 21 - 25, 2026 | 9:00 AM - 5:00 PM EDT

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| PRIVATE GROUP TRAINING | 4 Day |
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