

# DESIGNING AND IMPLEMENTING A MICROSOFT AZURE AI SOLUTION (AI-102T00)

Course Code: 101000

Learn to build AI infused applications that leverage Azure AI Services, Azure AI Search, and Azure OpenAI.

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.

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### **Microsoft Azure Certification Video**

## What You'll Learn

Students will learn to,

- Get started with Azure AI Services
- Create computer vision solutions with Azure AI Vision
- Develop natural language processing solutions with Azure AI Services
- Implement knowledge mining with Azure AI Search
- Develop solutions with Azure AI Document Intelligence
- Develop Generative AI solutions with Azure OpenAI Service

## Who Needs to Attend

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.

# DESIGNING AND IMPLEMENTING A MICROSOFT AZURE AI SOLUTION (AI-102T00)

Course Code: 101000

CLASSROOM LIVE

\$2,595 USD

4 Day

## Classroom Live Outline

### **Module 1: Get started with Azure AI Services**

- 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

### **Module 2: Create computer vision solutions with Azure AI Vision**

- Analyze images
- Image classification with custom Azure AI Vision models
- 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

### **Module 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

#### **Module 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 re-ranking with semantic ranking in Azure AI Search
- Perform vector search and retrieval in Azure AI Search

#### **Module 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

#### **Module 6: Develop Generative AI solutions with Azure OpenAI Service**

- Get started with Azure OpenAI Service
- Build natural language solutions with Azure OpenAI Service
- Apply prompt engineering with Azure OpenAI Service
- Generate code with Azure OpenAI Service
- Generate images with Azure OpenAI Service
- Implement Retrieval Augmented Generation (RAG) with Azure OpenAI Service

#### **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

# DESIGNING AND IMPLEMENTING A MICROSOFT AZURE AI SOLUTION (AI-102T00)

Course Code: 101000

VIRTUAL CLASSROOM LIVE

\$2,595 USD

4 Day

## Virtual Classroom Live Outline

### **Module 1: Get started with Azure AI Services**

- 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

### **Module 2: Create computer vision solutions with Azure AI Vision**

- Analyze images
- Image classification with custom Azure AI Vision models
- 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

### **Module 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

#### **Module 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 re-ranking with semantic ranking in Azure AI Search
- Perform vector search and retrieval in Azure AI Search

#### **Module 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

#### **Module 6: Develop Generative AI solutions with Azure OpenAI Service**

- Get started with Azure OpenAI Service
- Build natural language solutions with Azure OpenAI Service
- Apply prompt engineering with Azure OpenAI Service
- Generate code with Azure OpenAI Service
- Generate images with Azure OpenAI Service
- Implement Retrieval Augmented Generation (RAG) with Azure OpenAI Service

#### Virtual 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
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- Lab : Create a Bot with the Bot Framework SDK
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- 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

Apr 21 - 24, 2025 | 9:00 AM - 5:00 PM EDT

Jun 9 - 12, 2025 | 9:00 AM - 5:00 PM EDT

Aug 18 - 21, 2025 | 9:00 AM - 5:00 PM EDT





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PRIVATE GROUP TRAINING

4 Day

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