



# AI-050T00: Develop Generative AI Solutions with Azure OpenAI Service

Course ID #: 7000-855-ZZ-Z

Hours: 7

## Course Content

### Course Description:

This course provides access to OpenAI's powerful large language models such as GPT; the model behind the popular ChatGPT service. These models enable various natural language processing (NLP) solutions to understand, converse, and generate content. Users can access the service through REST APIs, SDKs, and Azure OpenAI Studio. In this course, you'll learn how to provision Azure OpenAI service, deploy models, and use them in generative AI applications.

### Course Objectives:

Upon successful completion of this course, students will be able to:

- Understand generative AI models
- Understand Azure OpenAI's language, code, and image capabilities
- Use the Azure OpenAI Studio, console, or REST API to deploy a base model and test it in the Studio's playgrounds
- Generate completions to prompts and begin to manage model parameters
- Integrate Azure OpenAI into your application
- Include clear instructions, request output composition, and use contextual content to improve the quality of the model's responses
- And so much more!

### Prerequisites:

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python. If you have no previous programming experience, we recommend you complete the Take your first steps with C# or Take your first steps with Python learning path before taking this course.

### Target Audience:

- AI Engineer
- Data Scientist

The audience for this course includes software developers and data scientists who need to use large language models for generative AI. Some programming experience is recommended, but the course will be valuable to anyone seeking to understand how the Azure OpenAI service can be used to implement generative AI solutions.



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## Topics:

### Lesson 1: Introduction to Azure OpenAI Service

- Introduction
- What is generative AI
- Describe Azure OpenAI
- How to use Azure OpenAI
- Understand OpenAI's natural language capabilities
- Understand OpenAI code generation capabilities
- Understand OpenAI's image generation capabilities
- Describe Azure OpenAI's access and responsible AI policies
- Exercise - Explore Azure OpenAI Service
- Knowledge check
- Summary

### Lesson 2: Get started with Azure OpenAI Service

- Introduction
- Access Azure OpenAI Service
- Use Azure OpenAI Studio
- Explore types of generative AI models
- Deploy generative AI models
- Use prompts to get completions from models
- Test models in Azure OpenAI Studio's playgrounds
- Exercise - Get started with Azure OpenAI Service
- Knowledge check
- Summary

### Lesson 3: Build natural language solutions with Azure OpenAI Service

- Introduction
- Integrate Azure OpenAI into your app
- Use Azure OpenAI REST API
- Use Azure OpenAI SDK
- Exercise - Integrate Azure OpenAI into your app
- Knowledge check
- Summary

### Lesson 4: Apply prompt engineering with Azure OpenAI Service

- Introduction
- Understand prompt engineering
- Write more effective prompts
- Provide context to improve accuracy
- Exercise - Utilize prompt engineering in your application
- Knowledge check
- Summary

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