

Document Generated: 12/18/2025 Learning Style: Virtual Classroom

Technology:

Difficulty: Intermediate

Course Duration: 1 Day

Develop Generative AI Solutions with Azure OpenAI Service (AI-050)



If you enroll in this course at the listed price, you receive a Free Official Exam Voucher for the Al-050T00 Exam. This course does not include Exam Voucher if enrolled within the Master Subscription, however, you can request to purchase the Official Exam Voucher separately.

About this Course:

This course provides a comprehensive exploration of the fascinating realm of prompt engineering using the Azure OpenAl Service. It immerses participants in a learning experience that combines practical exercises and illustrative examples, enabling them to grasp the art of tailoring Al responses to closely match real-world scenarios. Upon completing this course, participants will have acquired the expertise and proficiency required to craft potent Generative Al Solutions on the Azure platform, making them well-equipped to harness the capabilities of Al for practical applications

Course Objectives

- Describe Azure OpenAl workloads and access the Azure OpenAl Service
- Understand generative AI models.
- Understand Azure OpenAl's language, code, and image capabilities.
- Understand Azure OpenAl's responsible Al practices and limited access policies.
- Create an Azure OpenAl Service resource and understand types of Azure OpenAl base models.
- Use the Azure OpenAl 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 OpenAl into your application
- Differentiate between different endpoints available to your application
- Generate completions to prompts using the REST API and language specific SDKs
- Understand the concept of prompt engineering and its role in optimizing Azure OpenAI models' performance.
- Know how to design and optimize prompts to better utilize AI models.
- Include clear instructions, request output composition, and use contextual content to improve the quality of the model's responses.

Audience:

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.

Prerequisites:

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python

Course Outline:

Module 1: Introduction to Azure OpenAl Service

Get to know the connection between artificial intelligence (AI), Responsible AI, and text, code, and image generation. Understand how you can use Azure OpenAI to build solutions against AI models within Azure.

Learning Objectives

- Describe Azure OpenAl workloads and access the Azure OpenAl Service
- Understand generative AI models.
- Understand Azure OpenAl's language, code, and image capabilities.
- Understand Azure OpenAl's responsible Al practices and limited access policies.

Lessons

- What is generative AI
- Describe Azure OpenAl
- How to use Azure OpenAl
- Understand OpenAl's natural language capabilities.
- Understand OpenAI code generation capabilities.
- Understand OpenAI's image generation capabilities.
- Describe Azure OpenAl's access and responsible Al policies.

Module 2: Get started with Azure OpenAl Service

This module provides engineers with the skills to begin building an Azure OpenAl Service solution.

Learning Objectives

- Create an Azure OpenAl Service resource and understand types of Azure OpenAl base models.
- Use the Azure OpenAl 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.

Lessons

- Access Azure OpenAl Service
- Use Azure OpenAl Studio
- Explore types of generative AI models
- · Deploy generative AI models
- Use prompts to get completions from models
- Test models in Azure OpenAi Studios playgrounds

Module 3: Build natural language solutions with Azure OpenAI Service

This module provides engineers with the skills to begin building apps that integrate with the Azure OpenAI Service.

Learning Objectives:

- Integrate Azure OpenAl into your application
- Differentiate between different endpoints available to your application
- Generate completions to prompts using the REST API and language specific SDKs

Lessons

- Integrate Azure OpenAl into your app
- Use Azure OpenAl REST API
- Use Azure OpenAI SDK

Module 4: Apply prompt engineering with Azure OpenAl Service

Prompt engineering in Azure OpenAI is a technique that involves designing prompts for natural language processing models. This process improves accuracy and relevancy in responses, optimizing the performance of the model.

Learning Objectives

- Understand the concept of prompt engineering and its role in optimizing Azure OpenAI models' performance.
- Know how to design and optimize prompts to better utilize AI models.
- Include clear instructions, request output composition, and use contextual content to improve the quality of the model's responses.

Lessons

- Understand prompt engineering
- Write more effective prompts
- Provide context to Improve accuracy