

# AI-050: Develop Generative AI Solutions with Azure Open AI Service

Course Duration: 08 hours (1 day)

## Important Note from Microsoft:

To complete the hands-on labs in this course, students require an Azure subscription that has been approved for access to the Azure Open AI service. Access approval can take several days to be granted. See <https://learn.microsoft.com/legal/cognitive-services/openai/limited-access> for details.

## Course Pre-requisites:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python.
  - Python check: <https://learn.microsoft.com/en-us/training/paths/beginner-python/>
  - C# Check: <https://learn.microsoft.com/en-us/training/paths/get-started-c-sharp-part-1/>

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## Module 01: Introduction to Azure Open AI Service

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

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## Module 02: Get Started with Azure Open AI Service

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

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### Module 03: Build natural language solutions with Azure Open AI Service

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

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### Module 04: Apply prompt engineering with Azure Open AI Service

- Understand the concept of prompt engineering and its role in optimizing Azure Open AI 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.
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