

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

**Course Duration: 8 Hours (1 Day)**

## Overview

The AI-050: Develop Generative AI Solutions with Azure Open AI Service course is designed to educate learners on leveraging the Azure Open AI Service for creating advanced AI models that can generate human-like text, code, and images. Throughout the course, participants will gain a deep understanding of Azure Open AI workloads, learn to Deploy and manage AI models via Azure Open AI Studio, console, or REST API, and discover how to integrate these models into their own applications to solve complex problems. Additionally, the course delves into Prompt engineering to enhance the performance of AI models and teaches best practices in Responsible AI. By mastering these skills, learners will be equipped to innovate in various domains using generative AI, ensuring that they can create cutting-edge AI solutions that are ethical and effective.

## Audience Profile

AI-050: Develop Generative AI Solutions with Azure OpenAI Service is designed for professionals seeking expertise in AI model integration and application.

- Software Developers and Engineers
- Data Scientists and AI Researchers
- Cloud Solution Architects
- AI and Machine Learning Enthusiasts
- IT Professionals with a focus on cloud services
- Technical Product Managers
- DevOps Engineers involved in AI deployments
- Technical Leads and Consultants specializing in Azure services
- Innovation Teams exploring AI capabilities
- Technical Educators and Trainers

## Course Syllabus

### 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

### 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.

### **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

### **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