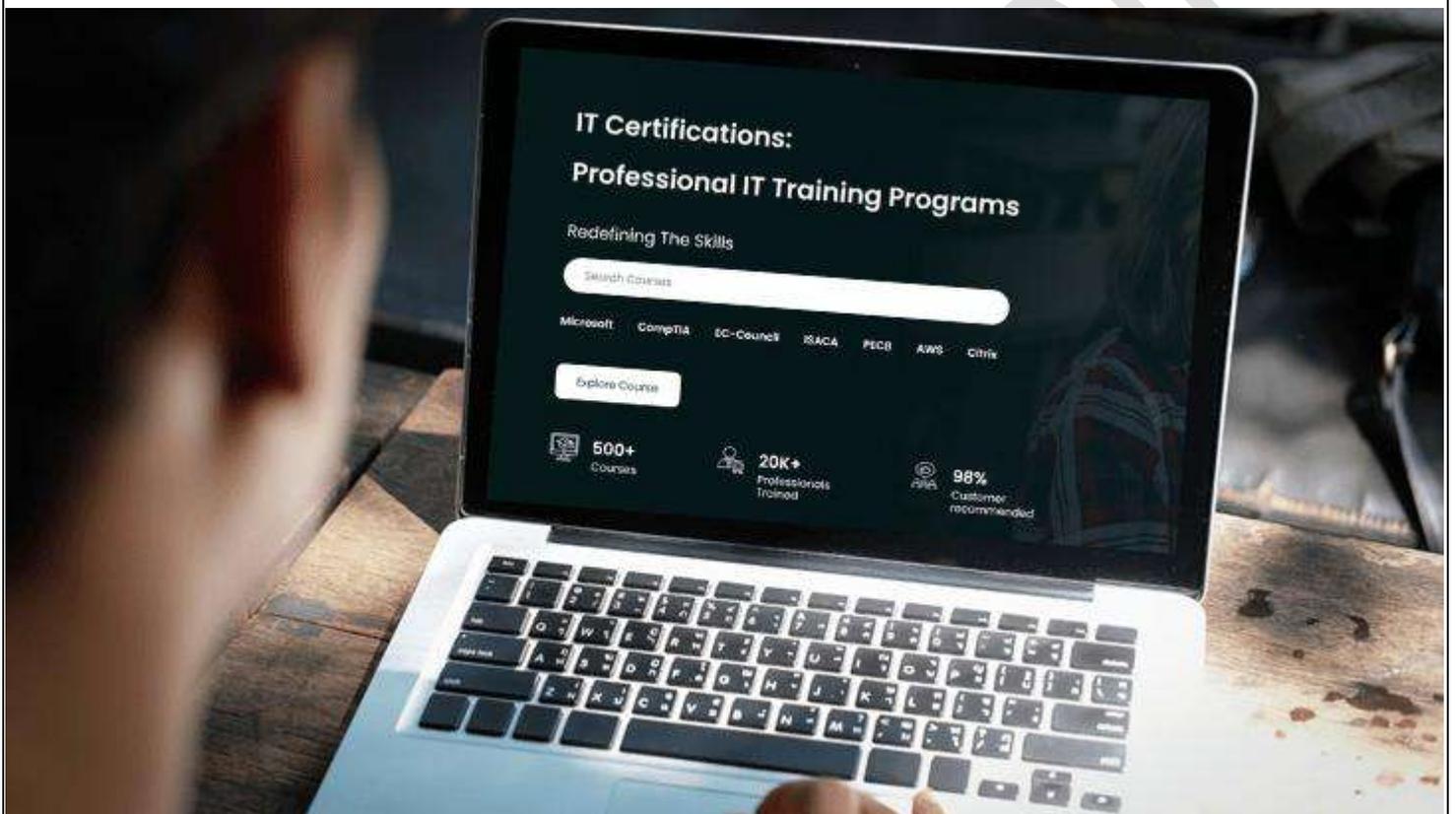# AI-050T00: DEVELOP GENERATIVE AI SOLUTIONS WITH AZURE OPENAI SERVICE TRAINING

**Duration: 1 Day**

## Course Description

AI-050T00 Develop Generative AI Solutions with Azure OpenAI Service Training is for professionals looking forward to exploring opportunities with generative AI solutions. This training accommodates individuals at any level, from beginners to experienced professionals.

Getting started with Azure OpenAI Service is considered to be the first step. After this initiation, you will be able to fully grasp the Azure OpenAI interface and will be able to work your way to creating AI solutions.

After completion of this training, students will have the foundational knowledge and abilities that are necessary to develop advanced generative AI solutions on Azure.

## Who should attend this course?

- Given below are professionals who can use Develop Generative AI Solutions with Azure OpenAI Service Training to upskill their current positions:
    - Data Scientist
    - Cloud Solution Architects
    - IT professionals
    - Software Developers
    - Software Engineers
    - Technical educators
    - AI and Machine Learning Enthusiasts

## What you will learn

- Introduction to 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 OpenAI Service
- Implement Retrieval Augmented Generation (RAG) with Azure OpenAI Service
- Fundamentals of Responsible Generative AI
- Generate images with Azure OpenAI Service

## Prerequisites

- AI-900: Microsoft Azure AI Fundamentals
- Familiarity with Azure and Azure portal.
- Experience in programming with C# or Python.

## Curriculum

### Module 1: Fundamentals of Azure OpenAI Service

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

## Module 2: Build natural language solutions with Azure OpenAI Service

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

## Module 3: Get started with Azure OpenAI Service

- Create an Azure OpenAI Service resource and understand the types of Azure OpenAI base models
- 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
- Lab: Get started with Azure OpenAI Service

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

- 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
- Lab: Utilize prompt engineering in your application

*For any query Contact Us – Microtek Learning*