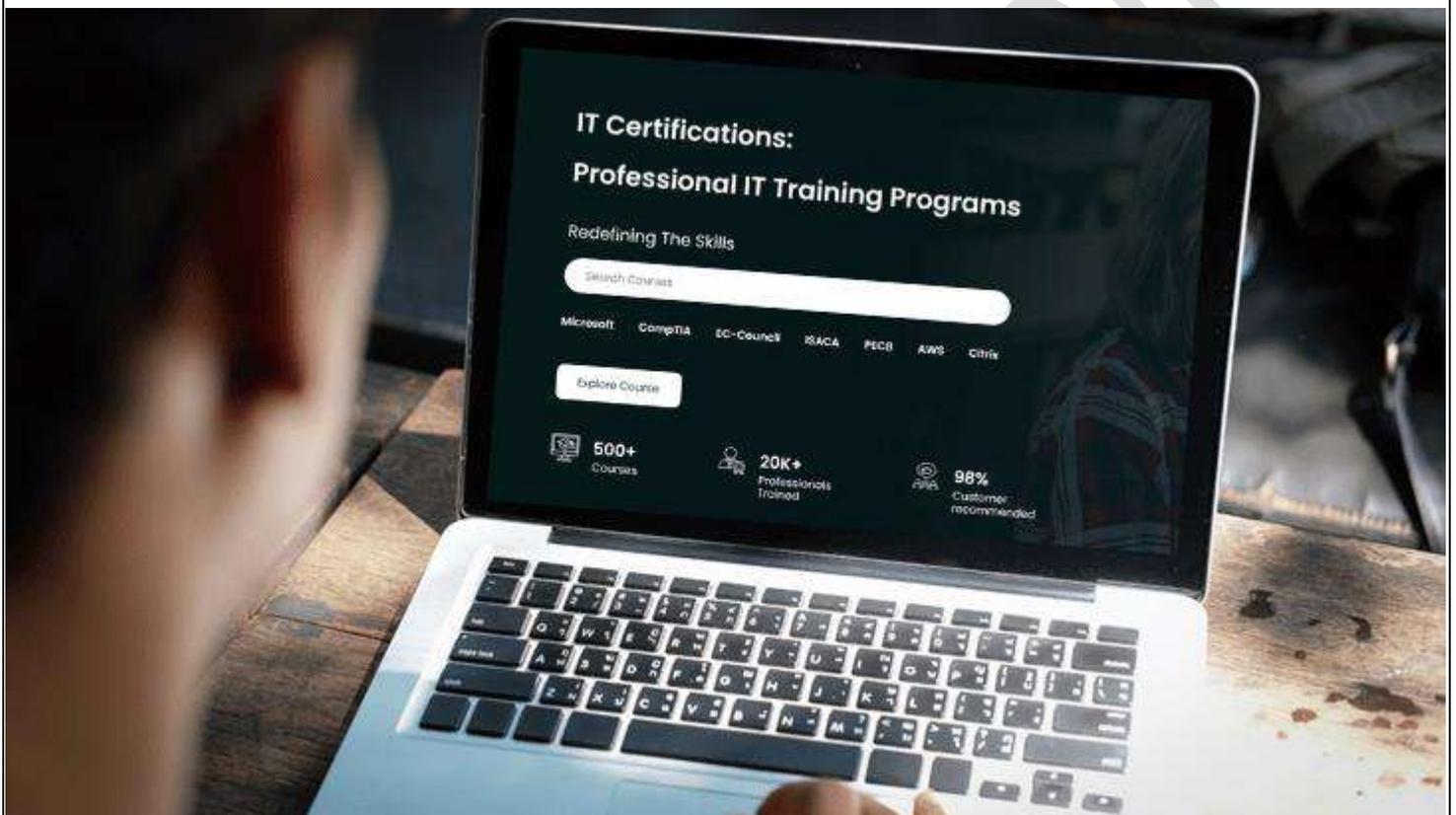# AZ-2005: Develop Generative AI solutions using Azure OpenAI and the Semantic Kernel SDK Training

DURATION: 1 DAY (8 HOURS)

Course Description

AZ-2005: Develop Generative AI Solutions with Azure OpenAI and the Semantic Kernel SDK provides comprehensive training on creating intelligent AI applications. Participants will learn to design AI agents, optimize prompts, and develop plugins to extend AI capabilities. The course features hands-on labs, including deployment of AI travel agents and other practical applications. By mastering the Semantic Kernel SDK and large language models (LLMs), learners gain the skills to build and deploy advanced AI solutions efficiently.

Who should attend this course?

- Azure Developer
- AI Engineer
- Data Scientist

What you will learn

- Build your kernel
- Create plugins for semantic kernel
- Give your AI agent skills
- Use intelligent planners
- Guided project - Create an AI travel agent

Prerequisites

Recommended

- Experience programming in C#.
- Visual Studio Code IDE installed.
- Familiarity with Azure and the Azure portal.
- Access to Azure OpenAI Services.

Curriculum

Module 1: Build your kernel

- What is semantic kernel
- Why use semantic kernel
- How to build your kernel
- Exercise - Build a kernel object

Module 2: Run prompts with Semantic Kernel

- Optimize language model prompts
- Use semantic kernel prompt templates
- Use Handlebars prompt templates
- Store chat history
- Exercise - Run Semantic Kernel prompts

Module 3: Create Semantic Kernel plugins

- Understand native plugins
- Configure function choices
- Exercise - Create Semantic Kernel plugins

Module 4: Apply filters on functions

- Understand prompt injections
- Filter invoked functions
- Exercise - Apply Semantic Kernel function filters

Module 5: Guided project - Create a DevOps Assistant with the Semantic Kernel SDK

- Exercise - Create a DevOps Assistant with the Semantic Kernel SDK

For any query Contact Us – Microtek Learning