



Develop MI Agents Using Azure OpenAI & the Semantic Kernel SDK (AZ-2005)

COURSE OVERVIEW

Learn how to use the Semantic Kernel SDK to build intelligent applications that automate tasks and perform natural language processing.

PREREQUISITES

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

COURSE OBJECTIVES

After completing this course, students will be able to:

- Build Your Kernel
- Create Plugins for Semantic Kernel
- Give Your AI Agent Skills
- Combine Prompts & Functions
- Automatic Function Calling
- Guided Project - Create an AI Travel Agent

COURSE OUTLINE

Build Your Kernel:

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

Create Plugins for Semantic Kernel:

- Explore built-in plugins
- Exercise - Use built-in plugins
- Optimize language model prompts
- Exercise - Write your own prompt
- Exercise - Use personas in prompts
- Save prompts to files
- Exercise - Saving prompts to files



Give Your AI Agent Skills:

- Understand native functions
- Exercise - Create native functions

Combine Prompts & Functions:

- Use functions in prompts
- Exercise - Use nested functions for song suggestions

Automatic Function Calling:

- Automatically invoke functions
- Exercise - Automatically invoke functions
- Exercise - Automatically invoke functions

Guided Project - Create an AI Travel Agent:

- Prepare for guided project
- Exercise - Create a currency converter
- Exercise - Route user intent
- Exercise - Provide context cues

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