

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

Course Outline

1) Build your kernel

- Understand the purpose of Semantic Kernel
- Understand prompting basics
- Learn techniques for more effective prompts
- Lab: Create your endpoint
- Lab: Build a kernel object

2) Create plugins for semantic kernel

- Understand the purpose of Semantic Kernel plugins
- Learn how to use premade plugins
- Learn how to create your own plugins
- Lab: Use built-in plugins
- Lab: Write your own prompt
- Lab: Use personas in prompts
- Lab: Saving prompts to files

3) Give your AI agent skills

- Understand native functions in the Semantic Kernel SDK
- Learn how to create native function plugins
- Learn how to combine prompts with native functions
- Lab: Create native functions
- Lab: Combine prompts and functions

4) Use intelligent planners

- Understand planners in the Semantic Kernel SDK
- Learn how to use planners to automate function calls
- Learn how to optimize planners
- Learn how to use Semantic Kernel SDK to automatically invoke functions
- Lab: Create a planner
- Lab: Use a plan template
- Lab: Automatically invoke functions

5) Guided project Create an AI travel agent

- Create plugins for the Semantic Kernel
- Create prompts to elicit the best responses from the large language model (LLM)
- Manipulate LLM responses to guide the execution of code
- Automatically invoke the correct plugins to complete tasks
- Lab: Create a currency converter
- Lab: Route user intent
- Lab: Provide context cues