



# AZ-2005: Develop AI agents using Azure OpenAI and the Semantic Kernel SDK

Microsoft - Data & AI

- **Nível:** Intermédio
  - **Duração:** 7h
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## Sobre o curso

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

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## Destinatários

Students willing to develop AI agents using Azure open AI and the Semantic Kernel SDK.

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## Pré-requisitos

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

- Build your kernel
- Create plugins for semantic kernel
- Give your AI agent skills
- Combine Prompts and Functions
- Automatic function calling
- Guided project - Create an AI travel agent

## **Build your kernel**

- Understand the purpose of Semantic Kernel.
- Understand prompting basics.
- Learn techniques for more effective prompts.

## **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

## **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.

## **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.

## **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.