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

Course ID #: 7000-979-ZZ-Z

Hours: 7

Course Content

Course Description:

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.

Target Audience:

Developers

Topics:

Lesson 1: Build your kernel
- Introduction
- What is semantic kernel
- Why use semantic kernel
- How to build your kernel
- Exercise - Build a kernel object
- Module assessment
- Summary

Lesson 2: Run prompts with Semantic Kernel
- Introduction
- Optimize language model prompts
- Use semantic kernel prompt templates
- Use Handlebars prompt templates
- Store chat history
- Exercise - Run Semantic Kernel prompts
- Module assessment
- Summary

Lesson 3: Create Semantic Kernel plugins
- Introduction
- Understand native plugins
- Configure function choices
- Exercise - Create Semantic Kernel plugins
- Module assessment
- Summary

Lesson 4: Apply filters on functions
- Introduction
- Understand prompt injections
- Filter invoked functions
- Exercise - Apply Semantic Kernel function filters
- Module assessment
- Summary

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

- Introduction
- Exercise - Create a DevOps Assistant with the Semantic Kernel SDK
- Module assessment
- Summary

Register for this class by visiting us at:
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NASBA Information

Level: Intermediate

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Fields: Computer Software & Applications

CPEs: 14

Policies: Course Registration, Cancellation, Refund and Complaint Resolution

For more information regarding administrative policies such as complaint and refund, please contact our offices at 800-639-3535 or visit us at: **www.tcworkshop.com**

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