



# AI-3026: Develop AI agents on Azure

Course ID #: 7000-1064-ZZ-Z

Hours: 7

## Course Content

### Description:

Generative Artificial Intelligence (AI) is becoming more functional and accessible, and AI agents are a key component of this evolution. This course will help you understand the AI agents, including when to use them and how to build them, using Azure AI Foundry Agent Service and Semantic Kernel Agent Framework. By the end of this course, you will have the skills needed to develop AI agents on Azure.

### Prerequisites:

Before starting this module, you should be familiar with fundamental AI concepts and services in Azure.

### Target Audience:

AI Engineer

### Topics:

#### Lesson 1: Get started with AI agent development on Azure

- Introduction
- What are AI agents?
- Options for agent development
- Azure AI Foundry Agent Service
- Exercise - Explore AI Agent development
- Module assessment
- Summary

#### Lesson 2: Develop an AI agent with Azure AI Foundry Agent Service

- Introduction
- What is an AI agent
- How to use Azure AI Foundry Agent Service
- Develop agents with the Azure AI Foundry Agent Service
- Exercise - Build an AI agent
- Module assessment
- Summary

#### Lesson 3: Integrate custom tools into your agent

- Introduction
- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Exercise - Build an agent with custom tools
- Module assessment
- Summary

#### Lesson 4: Develop an AI agent with Semantic Kernel

- Introduction
- Understand Semantic Kernel AI agents
- Create an Azure AI agent with Semantic Kernel
- Add plugins to Azure AI agent
- Exercise - Develop an Azure AI agent with the Semantic Kernel SDK
- Knowledge check
- Summary



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## Lesson 5: Orchestrate a multi-agent solution using Semantic Kernel

- Introduction
- Understand the Semantic Kernel Agent Framework
- Create an agent group chat
- Design an agent selection strategy
- Define a chat termination strategy
- Exercise - Develop a multi-agent solution
- Knowledge check
- Summary

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## NASBA Information

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

**Recommended Field(s) of Study:**

**Recommended CPEs:** 7.80

### **Policies: Course Registration, Cancellation, Refund, and Complaint Resolution**

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