

**Days:** 1

**Prerequisites:** Before starting this course, you should be familiar with fundamental AI concepts and services in Azure.

**Audience:** This intermediate-level class is perfect for learners, such as AI Engineers, with experience with fundamental AI concepts and Azure services.

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

## OUTLINE:

### LESSON 1 - GET STARTED WITH AI AGENT DEVELOPMENT ON AZURE

- What are AI agents?
- Options for agent development
- Azure AI Agent Service
- Module assessment
- Create an agent group chat
- Design an agent selection strategy
- Define a chat termination strategy

### LESSON 2 - DEVELOP AN AI AGENT WITH AZURE AI AGENT SERVICE

- What is an AI agent
- How to use Azure AI Agent Service
- Develop agents with the Azure AI Agent Service
- Module assessment

### LESSON 3 - INTEGRATE CUSTOM TOOLS INTO YOUR AGENT

- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Module assessment

### LESSON 4 - DEVELOP AN AI AGENT WITH SEMANTIC KERNEL

- Understand Semantic Kernel AI agents
- Create an Azure AI agent with Semantic Kernel
- Add plugins to Azure AI agent

### LESSON 5 - ORCHESTRATE A MULTI-AGENT SOLUTION USING SEMANTIC KERNEL

- Understand the Semantic Kernel Agent Framework