AI-3026: Develop AI Agents on Azure

Price: 695

Duration: 1 days

Delivery Methods: Virtual

Overview

About this Course

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 Agent Service and Semantic Kernel Agent Framework.

Audience Profile

This course is designed for developers, data scientists, and IT professionals who want to build intelligent AI-driven solutions in Azure. It is ideal for individuals with a basic understanding of programming and cloud technologies looking to enhance their skills in creating scalable and interactive AI agents for business or personal projects.

At Course Completion

By the end of this course, you will have the skills needed to develop AI agents on Azure.

Outline

Get started with AI agent development on Azure
AI agents represent the next generation of intelligent applications. Learn how they can be developed and used on Microsoft Azure.

Introduction
What are AI agents?

Options for agent development

Azure AI Foundry Agent Service

Exercise – Explore AI Agent development

Module assessment

Summary

Develop an AI agent with Azure AI Foundry Agent Service

This module provides engineers with the skills to begin building agents 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

Integrate custom tools into your agent

Built-in tools are useful, but they may not meet all your needs. In this module, learn how to extend
the capabilities of your agent by integrating custom tools for your agent to use.

Introduction

Why use custom tools

Options for implementing custom tools

How to integrate custom tools

Exercise – Build an agent with custom tools

Develop a multi-agent solution with Azure AI Foundry Agent Service

Break down complex tasks with intelligent collaboration. Learn how to design multi-agent solutions
using connected agents.

Introduction

Understand connected agents

Design a multi-agent solution with connected agents

Exercise – Develop a multi-agent app with Azure AI Foundry

Integrate MCP Tools with Azure AI Agents

Enable dynamic tool access for your Azure AI agents. Learn how to connect MCP-hosted tools and
integrate them seamlessly into agent workflows.

Introduction

Understand MCP tool discovery

Integrate agent tools using an MCP server and client

Use Azure AI agents with MCP servers

Exercise – Connect MCP tools to Azure AI Agents

Develop an AI agent with Semantic Kernel

This module provides engineers with the skills to begin building Azure AI Foundry Agent Service agents 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

Orchestrate a multi-agent solution using Semantic Kernel

Learn how to use the Semantic Kernel SDK to develop your own AI agents that can collaborate for a multi-agent solution.

Introduction

Understand the Semantic Kernel Agent Framework

Understand agent orchestration

Use concurrent orchestration

Use sequential orchestration

Use group chat orchestration

Use handoff orchestration

Use Magentic orchestration

Manage orchestration runtime lifecycles

Exercise – Develop a multi-agent solution

Discover Azure AI Agents with A2A

Learn how to implement the A2A protocol to enable agent discovery, direct communication, and coordinated task execution across remote agents.

Introduction

Define an A2A agent

Implement an agent executor

Host an A2A server

Connect to your A2A agent

Exercise – Connect to remote Azure AI Agents with the A2A protocol

Prerequisites

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

Course Schedule

Date	Time	Price	Options

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