

Microsoft - Design and build integrated AI agent solutions in Copilot Studio

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Course Number: AB-620T00

Duration: 3 days

Overview

Course Description

Important

**This course will be available on 5/29/2026.

In this course, you learn how to design, build, and manage production-ready AI agent solutions using Microsoft Copilot Studio with a focus on building agents that integrate across systems and operate reliably at enterprise scale. You'll go beyond creating standalone agents and learn how to deliver end-to-end solutions that automate real business processes, connect to enterprise data, and take meaningful action across platforms. Throughout the course, you'll apply best practices for integration, governance, security, and responsible AI, so your agents are ready for real-world deployment. By the end of this course, you'll be able to:

- Build and orchestrate advanced workflows and multi-agent solutions
- Automate complex scenarios, including human-in-the-loop and computer-use workflows
- Apply identity, security, governance, and responsible AI considerations during solution design and implementation
- Test, monitor, and manage agents as enterprise-grade solutions

Audience Profile

This course is designed for advanced builders and professional developers who want to design, extend, and integrate Copilot Studio agents. Your goal is to automate real business processes by connecting agents to enterprise data, systems, and services while applying sound design, security, governance, and responsible AI practices. You should already have hands-on experience building agents in Copilot Studio, an intermediate understanding of generative AI concepts, proficiency working with REST APIs, and familiarity with the broader Microsoft cloud platform.

Audience

Course Details

Outline

- Deliver rich agent responses using Adaptive Cards in Microsoft Copilot Studio
 - Configure message formatting in agent topics
 - Design informational Adaptive Cards for agent responses
 - Collect user input with interactive Adaptive Cards
 - Apply channel-specific considerations for Adaptive Cards
 - Module assessment
- Take action from agent conversations using topics and tools in Microsoft Copilot Studio
 - Call tools from agent topics
 - Call agent flows from agent topics
 - Retrieve and send data using the HTTP request node
 - Module assessment
- Generate AI-powered agent responses using generative answers in Microsoft Copilot Studio
 - Configure the generative answers node in a topic
 - Connect custom knowledge sources to a generative answers node
 - Shape AI responses with custom instructions

- Author and configure custom prompts in topics
- Module assessment
- Design multi-agent solutions in Microsoft Copilot Studio
 - Understand multi-agent architectures in Copilot Studio
 - Design multi-agent solutions using child agents
 - Design multi-agent solutions using connected agents
 - Module assessment
- Delegate agent tasks using child agents in Copilot Studio
 - Understand child agents in Copilot Studio
 - Create and configure a child agent
 - Configure child agent inputs, outputs, and trigger behavior
 - Test and manage child agents
 - Module assessment
- Build multi-agent solutions using connected agents in Copilot Studio
 - Understand connected agents in Copilot Studio
 - Connect an existing Copilot Studio agent
 - Connect a Microsoft Foundry agent
 - Connect a Microsoft Fabric Data agent
 - Manage and test your connected agent solution
 - Module assessment
- Build cross-platform multi-agent solutions using the Agent2Agent protocol in Microsoft Copilot Studio
 - Understand the Agent2Agent (A2A) protocol
 - Connect a Copilot Studio agent to an A2A-enabled agent
 - Test and validate an A2A agent connection
 - Module assessment
- Design integration strategies for agents in Microsoft Copilot Studio
 - Explore the Copilot Studio integration landscape
 - Compare action integration patterns
 - Authenticate and govern agent integrations
 - Select integration patterns for enterprise scenarios
 - Module assessment

- Take action in external systems using connector and REST API agent tools in Microsoft Copilot Studio
 - Understand connector and REST API tools in Copilot Studio
 - Add prebuilt and custom connector tools to an agent
 - Configure authentication for connector tools
 - Add a REST API tool using an OpenAPI specification
 - Module assessment
- Ground agents with enterprise knowledge using connectors and Azure AI Search in Microsoft Copilot Studio
 - Choose between Copilot connector and Power Platform connector knowledge sources
 - Add Copilot connectors as knowledge sources
 - Configure Power Platform connectors as real-time knowledge sources
 - Connect an agent to Azure AI Search
 - Module assessment
- Integrate agents with external systems via MCP in Microsoft Copilot Studio
 - Understand MCP and its role in Copilot Studio integration
 - Connect an agent to an existing MCP server
 - Configure authentication for MCP server connections
 - Enable and manage MCP tools on an agent
 - Module assessment