



AB-620T00: Design and build integrated AI agent solutions in Copilot Studio

Course ID #: 7000-1186-ZZ-Z

Hours: 21

Delivery Method: Group Internet Based

Course Content

Description:

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.

Objectives:

Upon successful completion of this course, students will:

- Design Copilot Studio agents that integrate with enterprise systems and data using connectors, APIs, Azure AI Search, and Model Context Protocol (MCP)
- 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

Prerequisites:

- Ability to create and publish an agent in Microsoft Copilot Studio
- Access to Microsoft Copilot Studio
- Permissions to create solutions and agents in a Power Platform environment

Target Audience:

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.



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Topics:

Design agent conversations and responses using topics in Microsoft Copilot Studio:

Deliver rich agent responses using Adaptive Cards in Microsoft Copilot Studio

- Introduction
- 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
- Summary

Generate AI-powered agent responses using generative answers in Microsoft Copilot Studio

- Introduction
- 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
- Summary

Take action from agent conversations using topics and tools in Microsoft Copilot Studio

- Introduction
- Call tools from agent topics
- Call agent flows from agent topics
- Retrieve and send data using the HTTP request node
- Module assessment
- Summary



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Design and build multi-agent solutions in Microsoft Copilot Studio:

Design multi-agent solutions in Microsoft Copilot Studio

- Introduction
- Understand multi-agent architectures in Copilot Studio
- Design multi-agent solutions using child agents
- Design multi-agent solutions using connected agents
- Module assessment
- Summary

Delegate agent tasks using child agents in Copilot Studio

- Introduction
- 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
- Summary

Build multi-agent solutions using connected agents in Copilot Studio

- Introduction
- 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
- Summary

Build cross-platform multi-agent solutions using the Agent2Agent protocol in Microsoft Copilot Studio

- Introduction
- Understand the Agent2Agent (A2A) protocol
- Connect a Copilot Studio agent to an A2A-enabled agent
- Test and validate an A2A agent connection
- Module assessment
- Summary



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Integrate agents with enterprise systems in Microsoft Copilot Studio:

Design integration strategies for agents in Microsoft Copilot Studio

- Introduction
- Explore the Copilot Studio integration landscape
- Compare action integration patterns
- Authenticate and govern agent integrations
- Select integration patterns for enterprise scenarios
- Module assessment
- Summary

Take action in external systems using connector and REST API agent tools in Microsoft Copilot Studio

- Introduction
- 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
- Summary

Ground agents with enterprise knowledge using connectors and Azure AI Search in Microsoft Copilot Studio

- Introduction
- 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
- Summary

Integrate agents with external systems via MCP in Microsoft Copilot Studio

- Introduction
- 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
- Summary

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NASBA CPE details are provided on the following pages.



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NASBA Information

Level:

Advanced Preparation:

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: 23.40

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

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

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