

AB 620- Design and Build Integrated AI Agent Solutions in Copilot Studio

Days: 3



Prerequisites: Before attending this course, students must have:

- Ability to create, configure, test, and publish an agent in Microsoft Copilot Studio
- Permissions to create solutions and agents in a Power Platform environment
- Familiarity with agent topics, knowledge sources, and tools in Copilot Studio
- Access to Microsoft Copilot Studio
- Conceptual familiarity with REST APIs and web services

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.

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.

Course Objectives: With a focus on practical applications, the course covers:

- 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

OUTLINE:

LEARNING PATH 1: DESIGN AGENT CONVERSATIONS AND RESPONSES USING TOPICS IN MICROSOFT COPILOT STUDIO

Learn to design and configure conversational agent behavior in Copilot Studio. Design conversations using topics, deliver rich responses using Adaptive Cards, take action from conversations using tools, and generate AI-powered answers using generative answers and custom prompts.

MODULES:

- Deliver rich agent responses using Adaptive Cards in Microsoft Copilot Studio
- Take action from agent conversations using topics and tools in Microsoft Copilot Studio
- Generate AI-powered agent responses using generative answers in Microsoft Copilot Studio

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LEARNING PATH 2: DESIGN AND BUILD MULTI-AGENT SOLUTIONS IN MICROSOFT COPILOT STUDIO

Learn to plan, design, and build multi-agent solutions in Microsoft Copilot Studio. You'll learn how to evaluate when multi-agent architectures are appropriate, architect solutions using child agents and connected agents, and implement both patterns to create organized, scalable agent systems.

MODULES:

- Design multi-agent solutions in Microsoft Copilot Studio
- Delegate agent tasks using child agents in Copilot Studio
- Build multi-agent solutions using connected agents in Copilot Studio
- Build cross-platform multi-agent solutions using the Agent2Agent protocol in Microsoft Copilot Studio

LEARNING PATH 3: INTEGRATE AGENTS WITH ENTERPRISE SYSTEMS IN MICROSOFT COPILOT STUDIO

Learn to integrate Copilot Studio agents with enterprise systems. This learning path covers evaluating integration patterns, configuring connectors and REST API tools, grounding agents with enterprise knowledge sources, and connecting agents to external systems via MCP.

MODULES:

- Design integration strategies for agents in Microsoft Copilot Studio
- Take action in external systems using connector and REST API agent tools in Microsoft Copilot Studio
- Ground agents with enterprise knowledge using connectors and Azure AI Search in Microsoft Copilot Studio
- Integrate agents with external systems via MCP in Microsoft Copilot Studio