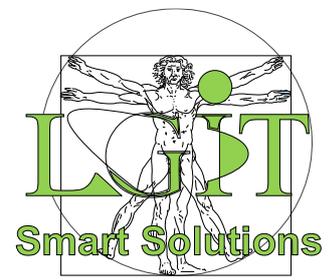# Build a foundation to build AI agents and extend Microsoft 365 Copilot #MS-4014-A

## Overview

Curious about building AI agents but unsure where to start? MS-4014: Build a foundation to build AI agents and extend Microsoft 365 Copilot offers a clear and practical introduction to the tools and strategies available for creating agents and/or extending Microsoft 365 Copilot. You'll explore the core components of AI agents and gain insight into the business value and real-world use cases they support. Through practical guidance, real-world use cases, and demos, you'll compare Microsoft's agent solutions—including Copilot Studio, Microsoft Foundry, and the Microsoft 365 Agents Toolkit—and evaluate both low-code and pro-code development approaches. By the end of the course, you'll be equipped to choose the right development path for your goals.

## Audience

Build a foundation to build AI agents and extend Microsoft 365 Copilot is designed for individuals interested in building AI agents and extending Microsoft 365 Copilot. It's ideal for learners who want to deepen their understanding of Microsoft's agent development options and plan to use low-code or pro-code agent development tools

## Duration: 1 day (2 x 3 hours)

# Course Content

## Module 1: Introduction to developing AI agents

Explore what AI agents are, understand their core components, and discover a range of impactful use cases driving AI-powered transformation

**Lessons**

- Introduction
- AI transformation and agents
- AI agent use cases
- AI agent components
- Module assessment
- Summary

# Module 2: Introduction to Microsoft AI agent solutions

Explore Microsoft AI agent solutions and gain clarity on when to adopt, extend, or develop custom agent solutions based on your scenario and objectives

**Lessons**

- Introduction
- The Microsoft AI agent ecosystem
- Maximize Microsoft 365 Copilot, Copilot Chat, and agents
- Customize and extend Microsoft 365 Copilot
- Build custom AI agents and applications
- Compare AI agent solutions
- Module assessment
- Summary

# Module 3: Choose the best Microsoft 365 Copilot extensibility path for your scenario

Explore development options for extending Microsoft 365 Copilot with custom data, logic, and actions. Determine the best approach for your scenario.

**Lessons**

- Introduction
- Identify extensibility options
- Analyze the decision criteria
- Extend Copilot's knowledge with Copilot connectors
- Build declarative agents in Copilot Studio
- Build declarative agents with Visual Studio Code and Microsoft 365 Agents Toolkit
- Deploy custom agents to Microsoft 365 Copilot
- Module assessment
- Summary

# Module 4: Choose a custom AI agent development path

Explore development paths for building custom AI agents for internal use or commercial applications. Compare tools and services like Copilot Studio, Microsoft Foundry, Microsoft 365 Agents SDK, and the Microsoft Teams SDK.

**Lessons**

- Introduction
- Identify custom AI agent development options
- Analyze decision criteria
- Build custom agents with Copilot Studio
- Build custom engine agents for Microsoft Teams
- Build multi-channel agent solutions with the Microsoft 365 Agents SDK
- Build scalable, enterprise-grade generative AI solutions on Azure
- Module assessment
- Summary