Build a foundation to build AI agents and extend Microsoft 365 Copilot (MS-4014)

Duration: 0,5 day
Audience: Professionnel TI

Who is this training for?

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.

Training objectives

- Understand what AI agents are, their core components, and impactful use cases
- Explore Microsoft AI agent solutions to determine when to adopt, extend, or develop custom solutions
- Identify and choose the best development options for extending Microsoft 365 Copilot with custom data, logic, and actions
- Explore and compare development paths for building custom AI agents for internal use or commercial applications using various Microsoft tools and services

Summary

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.

Course outline

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Introduction to developing AI agents

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

Introduction to Microsoft AI agent solutions

- 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

Choose the best Microsoft 365 Copilot extensibility path for your scenario

- 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

Choose a custom AI agent development path

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

- Module assessment

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.
- 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

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.
- Identify extensibility options
- Analyze the decision criteriaExtend 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

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, Azure AI Foundry, Microsoft 365 Agents SDK, and Teams AI Library.
- Identify custom AI agent development options
- Analyze decision criteriaBuild custom agents with Copilot Studio

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- 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

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually build a foundation to build AI agents and extend Microsoft 365 Copilot through real-world exercises inspired by professional scenarios, promoting immediate application of learnings. They learn how to design, configure, and integrate intelligent agents to enrich Copilot's capabilities and meet business needs. Led by a Microsoft-certified trainer, the training focuses on interactivity and the development of directly transferable technical skills to create and deploy AI solutions in a professional context.

Prerequisites

- Familiarity with Microsoft 365 Copilot.
- Basic knowledge of generative AI concepts (agent, model, orchestration, etc.).
- Familiarity with core Microsoft Cloud platforms (Microsoft 365, Power Platform and Azure).

Recommendations

Familiarize yourself with

- Microsoft 365 Copilot
- Generative AI basics

Identify potential use cases

- Task automation
- Decision support
- Workflow optimization
- Think about your organization's AI needs

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