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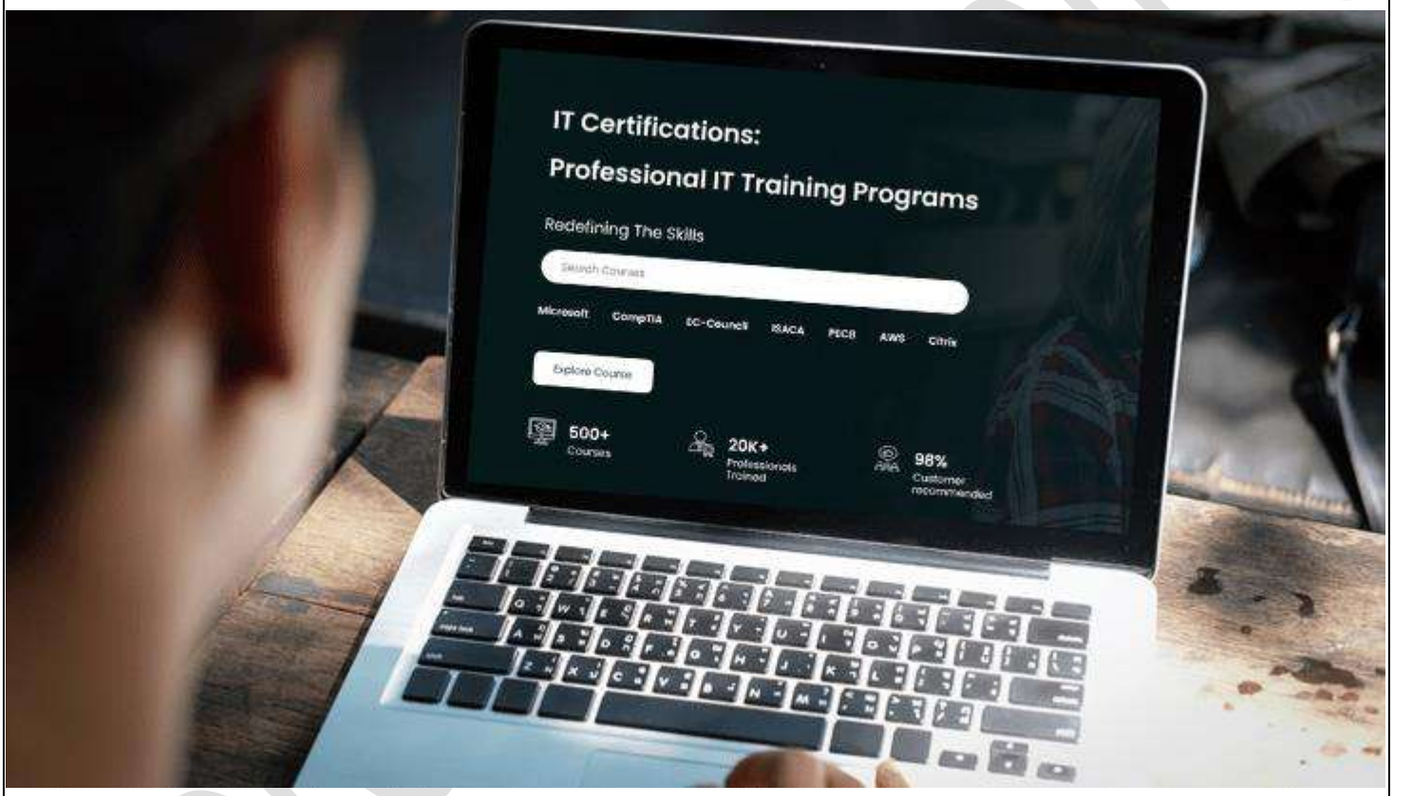


# MS-4010: Build plugins and connectors for Microsoft 365 Copilot Training

**DURATION: 1 DAY**

## Course Description

MS 4010 Build Plugins and Connectors Training is committed to helping you understand appropriate options for creating high-quality plugins and connectors. Professionals will learn about different ways to extend Copilot for best practices in building advanced plugins as well as its security considerations.

**Note:** Students have to bring their own copilot license.

## Who should attend this course?

- Power Platform Developer Consultant

## What you will learn

- Extend Microsoft Copilot for customized business needs
- Enhance Copilot's data access and discoverability with Graph connectors
- Expand Copilot's capabilities with plugins
- Build custom copilots using foundational models
- Optimize and secure plugins for Copilot

## Curriculum

**Module 1: Build plugins and connectors for Microsoft 365 Copilot**

**Microsoft 365 Copilot extensibility fundamentals**

- Explain how Copilot and agents work together to create a personalized, intelligent assistant with the knowledge and skills unique to your business.
- Describe the types of agents and the wide spectrum of capabilities with which they can be customized.
- Explain how to ground your Copilot responses with multiple enterprise data sources for more relevant and reliable responses.

**Choose a Microsoft 365 Copilot extensibility development path**

- Decide whether to extend Microsoft 365 Copilot using its existing orchestrator or to build a custom engine agent, based on their specific needs and goals.
- Gain insights into the various development tools and methods available, whether they prefer pro-code or low-code/no-code solutions, and how to set up their development environment for building these extensions.
- Understand the different ways to extend Microsoft 365 Copilot, including using declarative agents, custom engine agents, plugins, and connectors.
- Explain data privacy and security considerations for developing each extensibility option.

**Connect Microsoft 365 Copilot to your external data in real-time with message extension plugins built with .NET and Visual Studio**

- Understand what message extensions are and how to build them
- Create a message extension
- Understand how to authenticate users using single sign-on and call a custom API protected with Microsoft Entra authentication
- Understand how to extend and optimize message extensions for use with Microsoft 365 Copilot

**Guided Project - Build a message extension plugin with TypeScript (TS) for Microsoft 365 Copilot**

- Understand the purpose and functionality of Teams Message Extensions as plugins in Microsoft 365 Copilot.
- Learn how to set up a development environment and run the Northwind Inventory application.
- Gain practical experience in running the application as a message extension in Microsoft Teams and Outlook.
- Run the application as a plugin for Microsoft 365 Copilot and experiment with prompting.
- Develop skills in adding new commands to the application to expand the plugin capabilities and perform more tasks.
- Understand the underlying code of the application and how it works in more depth.

**Module 2: Extend Microsoft 365 Copilot with declarative agents using Visual Studio Code**

**Introduction to declarative agents for Microsoft 365 Copilot**

- Evaluate whether a declarative agent is appropriate to extend Microsoft 365 Copilot for your scenario.
- Describe how the components of a declarative agent work together to create agents that run on Microsoft 365 Copilot.

**Build your first declarative agent for Microsoft 365 Copilot by using Visual Studio Code**

- Design a declarative agent to solve a business problem.
- Implement a declarative agent with custom knowledge.
- Upload and use a declarative agent in Microsoft 365 Copilot to validate the results.

**Build your first action for declarative agents with API plugin by using Visual Studio Code**

- Design a declarative agent with actions using an API plugin
- Integrate a declarative agent with an API plugin connected to an anonymous API
- Run declarative agent with an API plugin in Microsoft 365 Copilot to validate the results

**Use Adaptive Cards to show data in API plugins for declarative agents**

- Create an Adaptive Card template that shows the data from the API.
- Verify that the Adaptive Card template correctly renders API data.
- Configure the API plugin to render the data using the Adaptive Card template.
- Upload your declarative agent to Microsoft 365 Copilot and validate the results.

**Add custom knowledge to declarative agents using Microsoft Graph connectors and Visual Studio Code**

- Design a declarative agent with a Graph connector
- Integrate a declarative agent with a Graph connector
- Run declarative agent with a Graph connector in Microsoft 365 Copilot to validate the results