Microsoft 365 Agents SDK, Copilot Extensions and Agent 365

Course code: SPO_COPILOT

A five-day pro-code course for developers and architects who build agents in the Microsoft 365 environment. One agent — a Support Assistant on top of the company's runbooks — is built over a week, with one layer added to it each day.The course starts where a real project starts: with a decision on which path to take. Participants willlively evaluate Skills, SharePoint agents, Copilot agent builder and Copilot Studio, build a declarative agent in the Microsoft 365 Agents Toolkit and hit its ceiling — only then will they turn to the Agents SDK. They then defend that decision throughout the week.This is followed by the Agents SDK core and local execution in the Agents Playground, application identity and authorization boundaries, grounding over corporate content via Microsoft Graph, actions with writing to SharePoint and parameter validation, a system prompt as a contract, and an attack on your own agent — after which it becomes clear why defense in the prompt is not enough and what defense in the code looks like. The last day will include multi-agent orchestration and Foundry Agent Service, instrumentation into Agent 365 with Entra Agent ID, golden set evaluation, and cost defense. Everything is measured. The agent logs token consumption starting Wednesday; on Friday, the participant calculates the price per query, monthly traffic, and return on investment of their solution. They leave with their own numbers, not an estimate — and what they can tell the customer. The course focuses on decision-making: when to use a declarative agent, when to use a custom engine, when to use Copilot Studio, and when to use Microsoft Foundry — and how to justify that choice to the customer and the internal security team. The code is written in TypeScript (Node.js, Microsoft 365 Agents SDK).

Who is this course for

- Solution architects and AI engineers
- Microsoft 365 developers extending Copilot
- Technology consultants designing enterprise AI integrations
- Platform engineers ensuring safe AI deployment

Prerequisites

- **Fundamentals of JavaScript (JS_PROG1) and TypeScript (JS_TS1)**
- — primary course language
- REST and JSON
- Fundamentals of Azure and Microsoft 365
- Experience with Microsoft Graph — preferred
- Experience with prompt engineering — preferred
- Fundamentals of C# (GOC2125 level) — preferred, only for mentions of Agent Framework

Course outline

Day 1 — Stack map and no-code/low-code journey

- **Onboarding, environment &toolchain**
- — VS Code, Microsoft 365 Agents Toolkit, Node.js, Agents Playground; three billing models (Copilot license, Copilot Credits, inference).
- **Agent Creation Roadmap &Decision Axis**
- — Copilot Architecture; Declarative vs. Custom Engine Agent; Agent Builder, SharePoint Agents, Declarative Agent from Toolkit, Copilot Studio, Agents SDK and Foundry Agent Service — when what and how to justify the choice.
- **No-code and low-code paths — showcase**
- — Agent Builder and Copilot Studio live on the same assignment; for each path: who hosts, who pays the model, who governs and what is not allowed.

Day 2 — Copilot in SharePoint and the declarative ceiling

- **Skills — Copilot in SharePoint extension**
- —
- SKILL.md
- anatomy, creation in chat, review and run; governance without admin switch (controlled by file rights).

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- SharePoint Agents
- — agent over the library with one click, its ceiling and sharing to Teams.
- Declarative Agents &Agents Toolkit
- — scaffold and provisioning, instructions like no-code orchestration, manifest capabilities, ALM and repo-as-code;
- precisely named ceiling declarative paths
- as motivation for custom engines.
- Data hygiene in SharePoint Online and Exchange Online
- — oversharing and permission sprawl, SharePoint Advanced Management, Restricted Content Discovery, sensitivity labels; hygiene checklist before deploying an agent.
- Agents in Microsoft Marketplace
- — org catalog vs. Marketplace, Partner Center, validation process and most common rejection reasons; case study of a real published agent.

Day 3 — First agent in code and knowledge

- Agents SDK — core
- —
- AgentApplication
- , activities and turns,
- TurnState
- , channels; first running agent locally including handling of error branches; Microsoft Foundry in a nutshell.
- Application Identity
- — app registration, delegated vs. application permissions, single/multi-tenant, Enterprise applications, tokens and scopes; the boundary that no prompt can talk you down.
- Grounding over corporate content
- — Copilot connectors (synced vs. federated), semantic index and permission enforcement, MCP; connecting knowledge to an agent
- live over the corporate library
- — and when not to do retrieval yourself.

Day 4 — Actions, prompts and security

- Action handlers &Microsoft Graph integration
- — routing actions,
- parameter validation before writing
- , writing to SharePoint, requesting from caller identity; delegated vs. app-only and what each boundary means for auditing.
- Prompt &system orchestration
- — system prompt as a contract, few-shot on format, tool-call loop and rounds within a turn, measured baseline for the rest of the week.
- Security &middleware — attack and defense as code
- — prompt injection and X

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