Develop AI agents on Azure (AI-3026)

ID AI-3026 **Price** CHF 690.—(excl. VAT) **Duration** 1 days

Who should attend

This course is designed for developers, data scientists, and IT professionals who want to build intelligent AI-driven solutions in Azure. It is ideal for individuals with a basic understanding of programming and cloud technologies looking to enhance their skills in creating scalable and interactive AI agents for business or personal projects.

Course Content

Develop AI agents with Microsoft Foundry and Visual Studio Code

- Introduction
- Understand AI agents and Microsoft Foundry Agent Service
- Explore development approaches
- Build your first agent in Microsoft Foundry
- Set up Visual Studio Code for agent development
- Configure and manage agents in Visual Studio Code
- Extend agent capabilities with tools
- Test, deploy, and integrate agents
- Exercise - Build and deploy an AI agent
- Knowledge check
- Summary

Integrate custom tools into your agent

- Introduction
- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Exercise - Build an agent with custom tools
- Module assessment
- Summary

Integrate MCP Tools with Azure AI Agents

- Introduction
- Understand MCP tool discovery
- Integrate agent tools using an MCP server and client
- Use Azure AI agents with MCP servers
- Exercise - Connect MCP tools to Azure AI Agents
- Module assessment
- Summary

Build knowledge-enhanced AI agents with Foundry IQ

- Introduction
- Understanding RAG for agents
- Explore Foundry IQ
- Configure data sources for knowledge bases
- Configure retrieval with Foundry IQ
- Exercise - Integrate an AI agent with Foundry IQ
- Knowledge check
- Summary

Integrate your agent with Microsoft 365

- Introduction
- Understand Foundry agent publishing options
- Publish an agent from Foundry portal to Teams
- Advanced - Use Microsoft 365 Agents Toolkit
- Access Microsoft 365 data with Work IQ
- Test and iterate your integrated agent
- Exercise - Publish a Foundry agent to Teams
- Knowledge check
- Summary

Build agent-driven workflows using Microsoft Foundry

- Introduction
- Understand Workflows
- Identify Workflow Patterns
- Create workflows in Microsoft Foundry
- Add Agents to a Workflow
- Apply Power Fx in Workflows
- Maintain Workflows in Microsoft Foundry
- Use workflows in code
- Exercise - Create an Agent-driven Workflow
- Module Assessment
- Summary

Develop an AI agent with Microsoft Agent Framework

- Introduction
- Understand Microsoft Agent Framework AI agents
- Create an Azure AI agent with Microsoft Agent Framework
- Add tools to Azure AI agent
- Exercise - Develop an Azure AI agent with the Microsoft Agent Framework SDK
- Knowledge check
- Summary

Orchestrate a multi-agent solution using the Microsoft Agent Framework

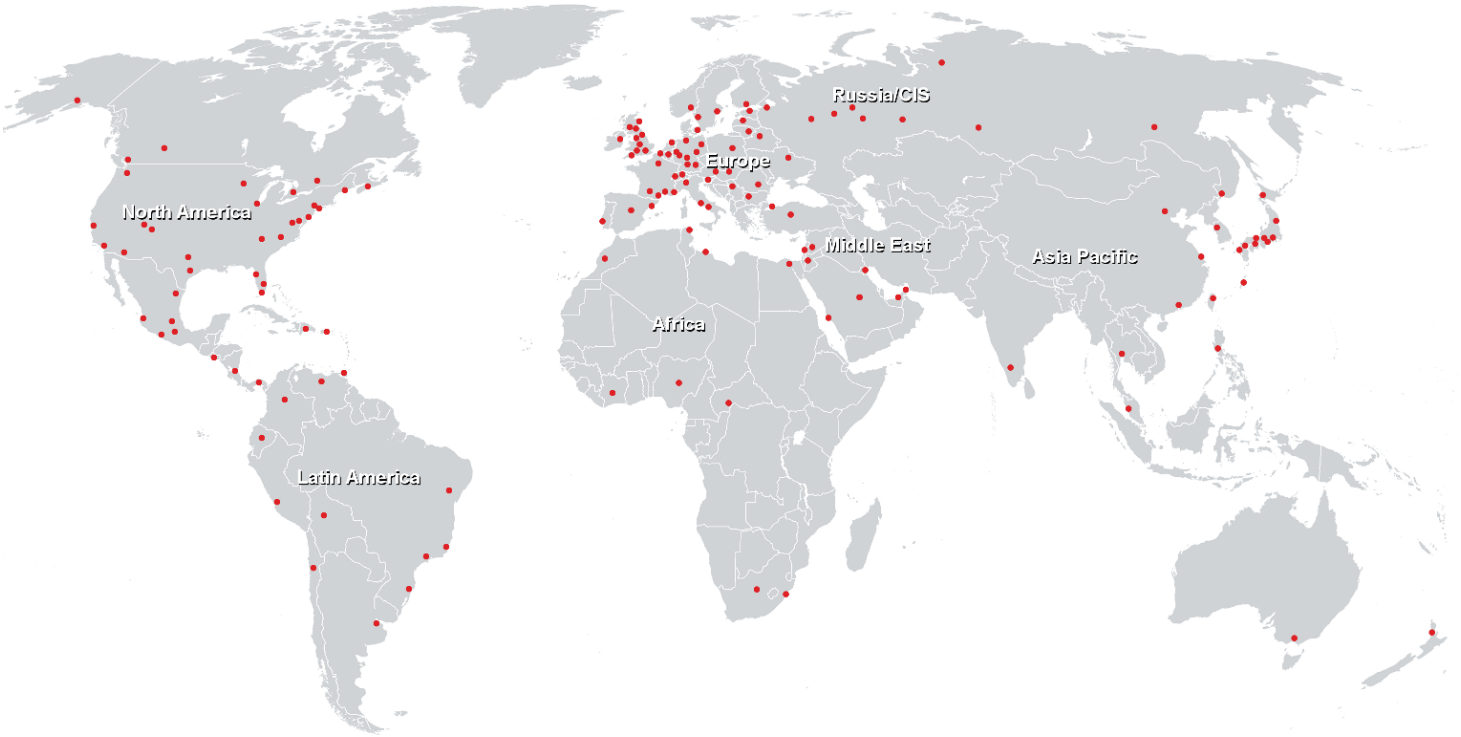
- Introduction
- Understand the Microsoft Agent Framework
- Understand agent orchestration
- Use concurrent orchestration
- Use sequential orchestration
- Use group chat orchestration
- Use handoff orchestration
- Use Magentic orchestration
- Exercise - Develop a multi-agent solution
- Knowledge check
- Summary

Discover Azure AI Agents with A2A

- Introduction
- Define an A2A agent
- Implement an agent executor
- Host an A2A server
- Connect to your A2A agent
- Exercise - Connect to remote Azure AI Agents with the A2A protocol
- Module assessment
- Summary

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