# DW-200: Accelerate Agentic AI

**Duration**: 4 days (5 Hours/Day)

## Course Overview

This is a comprehensive learning journey designed to rapidly equip professionals with the skills needed to effectively build, demonstrate, and deploy powerful AI-driven agents. From presales essentials using Microsoft Copilot Studio and SharePoint agents to advanced multi-agent development leveraging Azure AI Foundry, AutoGen, Semantic Kernel, and Microsoft Teams SDK, participants will progressively gain deep, practical insights. Attend this workshop to master key AI concepts, accelerate your organization's AI capabilities, and confidently architect, deploy, and scale sophisticated AI agent solutions.

**Level**: Intermediate-Advanced

# Course Agenda

### Day 1 - Showcasing AI Potential with Agentic AI

#### Module 1: Innovate with Microsoft 365 Copilot and agents

- M365 Copilot and agents
- How Copilot works
- Semantic index for Copilot
- M365 Copilot Chat
- Agents Use cases
- New agents in Microsoft 365
- Unlock more value with SharePoint  agents

#### Module 2: Extend Microsoft 365 Copilot with Agents

- Microsoft 365 Extensibility Planning and approach
- Declarative agents and agent tooling
- Explore Copilot Studio Agent Builder
- Build declarative agents with Microsoft 365 Agents Toolkit
- Train Copilot with Copilot Tuning
- Build custom agents with Copilot Studio
- Autonomous agents overview
- Agent Governance - Overview
- Gen-AI decision guide – when to build, buy or extend

#### Day 1 : Hands-on Labs

- Explore Copilot Studio Agent Builder
- Build HR Assistant Agent with Copilot Studio
- Incorporate actions in HR Agent
- Enable Autonomous Capabilities in Microsoft Copilot Studio for HR Activities

## Day 2 - Architecting Success with Multi-Agent AI Systems

### Module 3: Customize Agents with Gen AI in Copilot Studio

- Customizing your agents – Orchestrator, UI, Knowledge, Actions, Autonomy
- Copilot Studio implementation guidance for architects
- Generative AI in Copilot Studio
- Copilot Studio + Power Platform
- Building voice-enabled agents
- AI Foundry integration
- Developing agents using Microsoft 365 Agents SDK

### Module 4: Innovate with Azure AI Platform

- How language models work
- AI Foundry and SDK introduction
- AI Foundry Model Catalog
- Azure AI Services
- Azure OpenAI Service and model guidance
- Models-as-a-Service
- Azure AI Foundry Agent Service
- Safeguard with Trustworthy AI

### Day 2: Hands-on Labs

- Setup AI Project and perform Chat Completion from VS Code
- Build a simple AI Agent
- Develop a multi-agent system

## Day 3 - Multi-Agent AI: Advanced Agent Dev in Azure AI Foundry

### Module 5: Customize, orchestrate and experiment with Azure AI Foundry

- Retrieval Augmented Generation (RAG)
- Customizing models – Fine tuning, distillation
- Responses API (preview)
- Azure AI Foundry Agent Service - Orchestrate and debug AI workflows

### Module 6: Build your own multi agents with Semantic Kernel or AutoGen

- Multi-agent applications
- Understanding Semantic Kernel
- Understanding AutoGen Agents Framework
- Multi-Agent Collaboration & Orchestration with AutoGen / Semantic Kernel

**Day 3 : Hands-on Labs**

- Set Up Azure AI Foundry SDK and Provision Resources
- Build a Retrieval-Augmented Generation(RAG) Pipeline
- Evaluate and Optimize RAG Performance
- Semantic Kernel Fundamentals
- Semantic Kernel Plugins

## Day 4 - Enterprise Grade: Optimization and production at scale

**Module 7: Enterprise grade production at scale**

- Scaling challenges and agent controls
- Manage AI performance in production
- Observability Tools
- Enabling Enterprise governance and management
- Enterprise grade security and data protection
- Monitoring and observability

**Module 8: Advanced AI risk evaluation and mitigation**

- Identifying risks
- Azure AI Content Safety
- Evaluation and GenAIOps
- Identity and access management
- Network Security for AI apps
- Continuous security for AI

**Day 4 : Hands-on Labs**

- Understanding the Lifecycle of Flow Development
- Building and Customizing Prompt Flows
- Evaluation Flow Setup
- Fine-Tuning Prompts for Optimal Performance
- Implementing Chat Flow and Tool Integration
- Ensuring Responsible AI Practices with Content Safety