

MICROSOFT OFFICIAL CURRICULUM

Microsoft

AI-500T00

Design and implement multi-agent AI solutions

Official Microsoft Learn-aligned instructor-led program for Design and implement multi-agent AI solutions.

AI

Advanced

Microsoft Foundry

AVAILABILITY NOTICE

This course will be available on 9/30/2026.

DURATION

4 days

LEVEL

Advanced

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

AI-500T00

AUDIENCE PROFILE

Built for these roles

Candidates for this course, are expert-level practitioners who have subject matter expertise in designing, building, and optimizing scalable, production ready, multi-agent AI systems, solutions and workflows. Out of your job role, you work closely with developers, machine learning engineers, platform engineers, data scientists, and business stakeholders to translate complex requirements into production-ready, multi-agent solutions.

OVERVIEW

Executive overview

Important This course focuses on the practical skills needed to architect and develop multi-agent AI solutions using Microsoft Foundry and Azure, validating your ability to design logical architecture for multi-agent solutions, build and integrate tool ecosystems, implement multi-agent orchestration and integration of monitoring, security and governance.

PROGRAM OUTCOMES

Capabilities your teams will gain

- Strengthen capability in ai scenarios
- Strengthen capability in microsoft foundry scenarios
- Strengthen capability in role-based scenarios

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ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Builds current Microsoft credential readiness for Design and implement multi-agent AI solutions using the official Microsoft Learn outline.

Customization options

- Align labs to your production environment and platform priorities
- Add readiness reviews and instructor-led practice sessions
- Extend into project-specific architecture or delivery coaching

CURRICULUM

Curriculum roadmap

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MODULE 1

Architect production-grade multi-agent AI solutions in Azure

Learn how to design production-grade agentic AI solutions in Microsoft Foundry. This training covers stateful agentic loop architecture, hierarchical orchestration patterns, dynamic task decomposition strategies, and enterprise-scale agent communication ecosystems, including A2A protocol integration for cross-platform agent connectivity. AI-500

- Design stateful agentic loops with Microsoft Foundry Agent Service
- Implement advanced multi-agent orchestration patterns in Microsoft Foundry
- Apply task decomposition and agent collaboration strategies in Microsoft Foundry
- Design enterprise-scale agent communication with A2A in Azure

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MODULE 2

Build production-grade multi-agent capabilities with Microsoft Foundry

Learn how to implement the production-grade technical capabilities required to make multi-agent systems reliable, secure, and maintainable. This training helps learners advance from foundational prompting, tool consumption, and RAG patterns to designing multi-intervention guardrail architectures, building enterprise MCP servers, implementing hybrid RAG pipelines, and architecting durable agent memory systems with Azure Cosmos DB. AI-500

- Design advanced prompting strategies for production AI agents
- Build enterprise-grade tool ecosystems with MCP and Microsoft Foundry
- Implement advanced RAG pipelines with Azure AI Search and Microsoft Foundry
- Design multi-agent memory architectures with Azure Cosmos DB

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-  info@vnodeites.com
-  +91 9779 91 4792
-  WhatsApp · +91 9779 91 4792
-  +91 9419 11 4792

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Azure · AI · Data · Power Platform

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MODULE 3

Deploy and govern enterprise agentic AI solutions on Azure

Learn how to deploy multi-agent systems to Azure at enterprise scale and establish robust operational governance frameworks. Learners advance from foundational single-agent deployment and CI/CD patterns to coordinated multi-agent deployment pipelines, zero-trust security architecture across agent networks, enterprise-scale responsible AI governance, and full agent lifecycle management. AI-500

- Implement CI/CD pipelines for multi-agent systems with GitHub Actions
- Secure multi-agent systems with Azure zero-trust architecture
- Scale responsible AI governance with Azure AI Content Safety and Microsoft Foundry
- Govern the enterprise agent lifecycle in Microsoft Foundry

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MODULE 4

Monitor, evaluate, and operate multi-agent AI solutions in Azure

Learn how to operate production multi-agent solutions with comprehensive visibility, systematic quality assurance, cost control, and robust incident response. Learners advance from single-application monitoring and evaluation experiments to distributed multi-agent observability, LLM-as-judge evaluation for coordination quality, multi-agent cost optimization, enterprise human-in-the-loop approval workflows, and structured AI incident debugging procedures. AI-500

- Implement distributed observability for multi-agent solutions with OpenTelemetry
- Design evaluation frameworks for multi-agent solutions with Microsoft Foundry
- Optimize multi-agent performance and cost in Microsoft Foundry
- Design human-in-the-loop approval workflows with Power Automate and Microsoft Teams
- Debug and respond to production multi-agent incidents in Azure

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

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