

MICROSOFT OFFICIAL CURRICULUM

Microsoft

Integrate model context protocol tools with agents in Microsoft Foundry

Program aligned

Official Microsoft Applied Skill-aligned program focused on mcp tool integration.

AI

Intermediate

Microsoft Foundry

Applied Skill

DURATION

Applied skill assessment

LEVEL

Intermediate

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

Microsoft Applied Skills credential

AUDIENCE PROFILE

Built for these roles

Built for AI engineers and developers extending Microsoft Foundry agents with external tools, connected actions, and protocol-based integrations.

OVERVIEW

Executive overview

To earn this Microsoft Applied Skills credential, learners demonstrate the ability to Integrate model context protocol tools with agents in Microsoft Foundry. Candidates for this credential should have a solid understanding of working with Microsoft Foundry. - Select and deploy a model - Create and configure an agent - Connect an agent to an MCP server by using an MCP tool - Monitor the agent and MCP tool usage

PROGRAM OUTCOMES

Capabilities your teams will gain

- Strengthen delivery capability in mcp tool integration scenarios
- Apply Microsoft technology skills in task-oriented, real-world workflows
- Build stronger delivery confidence through scenario-based implementation practice
- Prepare teams for hands-on Microsoft applied-skill validation

TRAINING PROVIDER

VNode ITeS

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vnodeites.com

[linkedin.com/company/vnodeites](https://www.linkedin.com/company/vnodeites)

TALK TO US

 info@vnodeites.com

 +91 9419 11 4792

 WhatsApp +91 9419 11 4792

 +91 7780 81 1685

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DLF Cyber City, Gurugram

Haryana — India

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ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Helps teams build more capable enterprise agents by connecting Microsoft Foundry agents to reusable tools and controlled external capabilities.

Customization options

- Align the workshop to your real business or technical scenario
- Add project-focused labs and implementation guidance
- Extend into adoption, governance, or production-readiness reviews

CURRICULUM

Curriculum roadmap

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MODULE 1

Understand Model Context Protocol scenarios

Identify when MCP-based tool integration improves agent capability, reuse, and interoperability.

- Identify when MCP-based tool integration improves agent capability
- and interoperability

2

MODULE 2

Prepare MCP tools for agent integration

Review tool contracts, expected inputs and outputs, authentication needs, and operational boundaries before connection.

- Review tool contracts
- expected inputs
- authentication needs
- and operational boundaries before connection

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MODULE 3

Connect MCP tools in Microsoft Foundry

Configure a Microsoft Foundry agent to use MCP tools as part of a task-oriented agent workflow.

- AI App Development

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MODULE 4

Test tool calling and agent behavior

Validate that the agent selects tools appropriately, handles responses correctly, and fails gracefully in test scenarios.

- Validate that the agent selects tools appropriately
- handles responses correctly
- and fails gracefully in test scenarios

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MODULE 5

Secure and govern connected agent tools

Apply access, monitoring, review, and governance practices for agents that can invoke external capabilities.

- Apply access
- and governance practices for agents that can invoke external capabilities

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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-  info@vnodeites.com
-  +91 9419 11 4792
-  WhatsApp · +91 9419 11 4792
-  +91 7780 81 1685

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