GH-600T00-A: Developing in Agentic AI Systems

OEM: Microsoft • Duration: 1 Day (8 hrs) • Code: GH-600T00-A

COURSE MODULES & TOPICS

Developing in Agentic AI Systems Part 1 of 2

Foundations of Agentic AI in GitHub

- Introduction
- Define agentic ai
- Explain agent lifecycle plan act evaluate
- Describe github system record control plane
- Identify risks traceability
- Apply contributor model agent generated work
- Knowledge check
- Summary

Designing Agent Architecture and SDLC Integration

- Introduction
- Agent responsibilities
- Inputs outputs success criteria
- Plan reason execution
- Pull request governance controls
- Reliable workflows
- Agent operations controls
- Knowledge check
- Summary

Tooling, MCP, and Agent Execution Environments

- Introduction
- Interact github apis workflows
- Mcp servers registry allowlists
- Execution context boundaries
- Agent execution limits protections
- Knowledge check
- Summary

Developing in agentic AI systems part 2 of 2

Multi-Agent Systems and Orchestration

- Introduction
- Multi agent responsibilities
- Agent orchestration github workflows
- Execution isolation permissions concurrency
- Conflict resolution github arbitration
- System observability evidence workflows
- Scale failure recovery
- Knowledge check
- Summary

Memory, State, and Evaluation

- Introduction
- Agent memory strategies
- Agent state context drift
- Memory state continuity
- Evaluation signals quality gates
- Agent failures behavior improvement
- Knowledge check
- Summary

Governance, guardrails, and operations

- Introduction
- Define risk based autonomy
- Enforce governance github controls
- Design human workflows
- Control agent capabilities
- Make actions observable traceable auditable
- Maintain governance operational reliability
- Knowledge check
- Summary