AI-103T00: Develop AI Apps and Agents on Azure

Course ID #: 7000-1162-ZZ-Z
Hours: 28

Course Content

Course Description:

This course is intended for software developers wanting to build AI infused applications that leverage Microsoft Foundry. Topics in this course include developing generative AI apps, building AI agents, and solutions that implement knowledge connections or tools in your agentic applications. This course also covers multimodal capabilities and understanding of complex content.

Course Objectives:

- Configure Foundry resources and project environments
- Deploy foundation models using serverless endpoints and managed compute
- Manage prompt versioning and model deployment strategies
- Monitor AI applications with metrics such as latency, throughput, and token usage
- Implement evaluation metrics such as groundedness, relevance, coherence, and fluency

Prerequisites:

Students should be familiar with: Python development, APIs and SDKs, Azure concepts, Building agents or generative AI solutions

Target Audience:

This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Microsoft Foundry. They are familiar with Python and have knowledge on using APIs and SDKs to build agents and generative AI solutions on Azure.

Topics:

This domain tests your ability to select appropriate Azure AI services and design solution architectures. You should understand:

- When to use pre-built models vs custom-trained models
- Azure AI Foundry project and hub configuration
- Resource planning: compute, storage, and networking for AI workloads
- Cost optimization strategies for model inference

The largest domain focuses on hands-on implementation:

- Deploying models from the Azure AI model catalog (OpenAI, Phi, Llama)
- Building prompt flow pipelines with chaining and branching logic
- Implementing Retrieval-Augmented Generation (RAG) patterns
- Managing model versions, endpoints, and traffic splitting
- Fine-tuning models with custom training data

Microsoft has significantly expanded the responsible AI coverage:

- Configuring content safety filters for text, image, and multi-modal inputs
- Implementing Azure AI Content Safety evaluations

AI-103T00: Develop AI Apps and Agents on Azure

Course ID #: 7000-1162-ZZ-Z

Hours: 28

- Setting up abuse monitoring and rate limiting
- Designing human-in-the-loop review workflows
- Understanding fairness, transparency, and accountability principles

The final domain covers production deployment:

- Integrating AI models with Azure services (Logic Apps, Functions, API Management)
- Implementing authentication and authorization for AI endpoints
- Monitoring model performance with Azure Monitor and Application Insights
- Designing high-availability and disaster recovery for AI workloads
- Managing API versioning and backward compatibility

Register for this class by visiting us at:
www.tcworkshop.com or calling us at 800-639-3535

AI-103T00: Develop AI Apps and Agents on Azure

Course ID #: 7000-1162-ZZ-Z
Hours: 28

NASBA Information

Level: Intermediate
Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.
Fields: Computer Software & Applications
CPEs: 31.20

Policies: Course Registration, Cancellation, Refund and Complaint Resolution
For more information regarding administrative policies such as complaint and refund, please contact our offices at 800-639-3535 or visit us at: **www.tcworkshop.com**

Official National Registry Statement:
The Computer Workshop is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credits. Complaints regarding registered sponsors may be submitted to the National Registry of CPE Sponsors through its website: www.nasbaregistry.org

NOTE: Since our information is in multiple places on our web site or in PDF format that is sent to clients, we have provided our normal course content with the NASBA Information added along with links to our policy page on the web. We will add our name to the Official National Registry Statement after we are approved.