

Azure AI Apps and Agents Developer Associate (Exam AI-103)

COURSE CONTENT

GET IN TOUCH



Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

Azure AI Apps and Agents Developer Associate (Exam AI-103) Training is designed for professionals who want to build intelligent AI applications and autonomous AI agents using Azure AI services. The course covers Azure AI Foundry, Azure OpenAI Service, Retrieval-Augmented Generation (RAG), prompt engineering, agent orchestration, deployment, monitoring, security, and Responsible AI. Participants will gain practical knowledge of developing scalable AI-powered business applications while preparing for the AI-103 certification.

Module 1: Introduction to Azure AI Apps and Agents

- ✓ Overview of AI-103 Certification
- ✓ Azure AI Ecosystem
- ✓ Azure AI Foundry Overview
- ✓ Azure OpenAI Service
- ✓ Enterprise AI Applications
- ✓ AI Development Lifecycle

Module 2: Azure AI Foundry

- ✓ Workspace Creation
- ✓ Project Management
- ✓ Model Catalog
- ✓ Resource Configuration
- ✓ Prompt Flow
- ✓ AI Development Environment

Module 3: Azure OpenAI Service

- ✓ Large Language Models
- ✓ Chat Completion APIs
- ✓ Embeddings
- ✓ Model Deployment
- ✓ Content Filtering
- ✓ Token Management

Module 4: Prompt Engineering

- ✓ Prompt Design Techniques
- ✓ System Prompts
- ✓ Prompt Chaining
- ✓ Prompt Templates
- ✓ Prompt Testing
- ✓ Response Optimization

Module 5: Retrieval-Augmented Generation (RAG)

- ✓ RAG Architecture
- ✓ Azure AI Search
- ✓ Vector Search
- ✓ Embedding Models
- ✓ Knowledge Retrieval
- ✓ Search Optimization

Module 6: AI Agents

- ✓ AI Agent Fundamentals
- ✓ Agent Planning
- ✓ Tool Calling
- ✓ Function Execution
- ✓ Agent Memory

- ✓ Multi-Agent Collaboration

Module 7: Conversational AI

- ✓ Conversation Design
- ✓ Context Management
- ✓ Session Handling
- ✓ User Interaction
- ✓ Response Generation
- ✓ Conversation Evaluation

Module 8: Enterprise Integration

- ✓ REST API Integration
- ✓ Azure Functions
- ✓ Event-Driven Applications
- ✓ External Data Sources
- ✓ Business Application Integration
- ✓ Authentication

Module 9: Security and Responsible AI

- ✓ Identity Management
- ✓ Access Control
- ✓ Responsible AI Principles

- ✓ Content Safety
- ✓ Data Protection
- ✓ Compliance

Module 10: Deployment and Monitoring

- ✓ Application Deployment
- ✓ Azure App Service
- ✓ Monitoring
- ✓ Logging
- ✓ Diagnostics
- ✓ Troubleshooting

Module 11: Performance Optimization

- ✓ Performance Tuning
- ✓ Cost Optimization
- ✓ Scalability
- ✓ Resource Management
- ✓ Load Testing
- ✓ Best Practices

Module 12: Enterprise AI Projects

- ✓ AI Copilot Development

- ✓ Enterprise Chatbots
- ✓ Knowledge Assistants
- ✓ Business Automation
- ✓ End-to-End AI Agent Development
- ✓ Certification Practice Project