

Azure AI Cloud Developer Associate (Exam AI-200)

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 Cloud Developer Associate (Exam AI-200) Training is designed to help developers build, deploy, and manage cloud-native AI applications using Azure AI services. The course covers Azure AI Foundry, Azure OpenAI Service, intelligent application development, AI integration, prompt engineering, deployment, monitoring, security, and Responsible AI. Participants will gain practical experience developing scalable AI-powered cloud applications while preparing for the AI-200 certification.

Module 1: Introduction to Azure AI Cloud Development

- ✓ AI-200 Certification Overview
- ✓ Azure AI Ecosystem
- ✓ Cloud-Native AI Applications
- ✓ Azure AI Architecture
- ✓ AI Development Lifecycle
- ✓ Enterprise AI Use Cases

Module 2: Azure AI Services

- ✓ Azure AI Foundry
- ✓ Azure OpenAI Service
- ✓ Azure AI Vision
- ✓ Azure AI Language
- ✓ Azure AI Speech
- ✓ Azure AI Translator
- ✓ Azure AI Document Intelligence
- ✓ Azure AI Content Safety
- ✓ Azure AI Search
- ✓ Selecting the Right Azure AI Service

Module 3: Developing AI Applications

- ✓ Application Architecture
- ✓ SDKs and REST APIs
- ✓ AI Service Integration
- ✓ Model Consumption

- ✓ Application Design Patterns
- ✓ Error Handling
- ✓ Configuration Management
- ✓ Best Practices

Module 4: Prompt Engineering & LLM Integration

- ✓ Prompt Engineering Fundamentals
- ✓ System Prompts
- ✓ Prompt Templates
- ✓ Prompt Optimization
- ✓ Context Management
- ✓ Few-shot Prompting
- ✓ Function Calling
- ✓ LLM Integration Techniques

Module 5: Retrieval-Augmented Generation (RAG)

- ✓ RAG Fundamentals
- ✓ Azure AI Search
- ✓ Embeddings
- ✓ Vector Search
- ✓ Knowledge Retrieval
- ✓ Document Chunking

- ✓ Hybrid Search
- ✓ Semantic Ranking
- ✓ Context Injection
- ✓ Response Optimization

Module 6: Cloud Integration and Enterprise Connectivity

- ✓ REST API Integration
- ✓ Azure Functions
- ✓ Azure Logic Apps
- ✓ Azure Event Grid
- ✓ Azure Storage Integration
- ✓ Database Connectivity
- ✓ External APIs
- ✓ Enterprise Integration Patterns

Module 7: Security and Responsible AI

- ✓ Azure Identity
- ✓ Authentication
- ✓ Authorization
- ✓ Secret Management
- ✓ Responsible AI Principles
- ✓ Content Safety

- ✓ Data Privacy
- ✓ Compliance
- ✓ AI Governance

Module 8: Deploying Azure AI Applications

- ✓ Azure App Service
- ✓ Azure Container Apps
- ✓ Azure Kubernetes Service (AKS)
- ✓ Deployment Pipelines
- ✓ Configuration Management
- ✓ Scaling Applications
- ✓ Version Management
- ✓ Deployment Best Practices

Module 9: Monitoring and Performance Optimization

- ✓ Azure Monitor
- ✓ Application Insights
- ✓ Logging
- ✓ Diagnostics
- ✓ Performance Monitoring
- ✓ Cost Optimization
- ✓ Troubleshooting

- ✓ Reliability Best Practices

Module 10: Testing and Production Readiness

- ✓ Functional Testing
- ✓ AI Response Evaluation
- ✓ Load Testing
- ✓ Security Testing
- ✓ Performance Validation
- ✓ Continuous Improvement
- ✓ Production Checklist

Module 11: Enterprise AI Projects

- ✓ Enterprise AI Assistant
- ✓ Intelligent Document Processing
- ✓ AI Knowledge Assistant
- ✓ Customer Support Solution
- ✓ AI Workflow Automation
- ✓ End-to-End AI Cloud Application
- ✓ AI-200 Certification Practice Project