

Azure AI Fundamentals

(Exam AI-901)

COURSE CONTENT

GET IN TOUCH



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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 Fundamentals (Exam AI-901) Training provides a comprehensive introduction to Artificial Intelligence and intelligent cloud technologies using the Azure platform. The course focuses on building a clear understanding of AI concepts, machine learning, computer vision, natural language processing, speech intelligence, generative AI, and Azure AI services through practical business scenarios and real-world examples. Participants will learn how organizations leverage AI to improve productivity, automate business processes, enhance customer experiences, and support data-driven decision-making. This training establishes a strong foundation for professionals who want to begin their journey in Artificial Intelligence, understand cloud-based AI solutions, and prepare for advanced AI technologies and enterprise AI application development.

Module 1: Introduction to Artificial Intelligence

- ✓ Fundamentals of Artificial Intelligence
- ✓ Types of Artificial Intelligence
- ✓ AI vs Machine Learning vs Deep Learning
- ✓ Business Applications of AI
- ✓ AI Lifecycle
- ✓ Cloud-Based AI Solutions
- ✓ Introduction to Azure AI Platform

Module 2: Machine Learning Fundamentals

- ✓ Introduction to Machine Learning
- ✓ Supervised Learning
- ✓ Unsupervised Learning
- ✓ Reinforcement Learning Concepts
- ✓ Model Training and Validation
- ✓ Prediction and Classification
- ✓ Common Machine Learning Business Scenarios

Module 3: Computer Vision Fundamentals

- ✓ Understanding Computer Vision
- ✓ Image Recognition Concepts
- ✓ Object Detection
- ✓ Optical Character Recognition (OCR)

- ✓ Face Analysis Concepts
- ✓ Image Classification
- ✓ Business Applications of Vision AI

Module 4: Natural Language Processing (NLP)

- ✓ Language AI Fundamentals
- ✓ Text Analytics
- ✓ Sentiment Analysis
- ✓ Language Detection
- ✓ Entity Recognition
- ✓ Text Translation
- ✓ Intelligent Text Processing

Module 5: Speech Intelligence

- ✓ Speech Recognition
- ✓ Speech-to-Text Solutions
- ✓ Text-to-Speech Technology
- ✓ Speech Translation
- ✓ Voice-Based AI Applications
- ✓ Real-Time Speech Processing

Module 6: Generative AI and Conversational AI

- ✓ Introduction to Generative AI
- ✓ Large Language Models (LLMs)
- ✓ AI Assistants and Virtual Agents
- ✓ Prompt Engineering Fundamentals
- ✓ AI Content Generation
- ✓ Conversational AI Concepts
- ✓ Enterprise Applications of Generative AI

Module 7: Azure AI Services

- ✓ Azure AI Services Overview
- ✓ Vision Services
- ✓ Language Services
- ✓ Speech Services
- ✓ Azure AI Search
- ✓ Azure OpenAI Service
- ✓ Selecting the Right Azure AI Service

Module 8: Responsible AI and AI Security

- ✓ Responsible AI Principles
- ✓ Ethical AI Development
- ✓ Fairness and Transparency

- ✓ Privacy and Data Protection
- ✓ AI Governance
- ✓ Security Best Practices
- ✓ Building Trustworthy AI Solutions

Module 9: AI Solution Design and Real-World Applications

- ✓ Designing AI Solutions
- ✓ AI Integration Strategies
- ✓ Industry Use Cases
- ✓ Intelligent Business Automation
- ✓ AI Solution Deployment Concepts
- ✓ AI Project Best Practices
- ✓ Certification Preparation and Practice Scenarios