

AI-900: Azure AI Fundamentals

Overview

Microsoft Certified: Azure AI Fundamentals validates foundational knowledge of AI concepts and Azure AI services for responsible and ethical AI implementation.

Exam Details

- **Exam Code:** AI-900
- **Duration:** 60 minutes
- **Questions:** 30-40 multiple choice
- **Passing Score:** ~700/1000
- **Cost:** \$99 USD
- **Prerequisites:** None required

Core Skills Tested

1. AI Concepts & Ethics

- Machine learning principles and supervised vs unsupervised learning
- Responsible AI practices and ethical considerations
- Bias detection and fairness in AI systems
- Privacy and security in AI solutions

2. Azure AI Services

- Computer Vision for image analysis and OCR
- Natural Language Processing (NLP) services
- Speech recognition and text-to-speech
- Document Intelligence and form processing

3. Generative AI & Azure OpenAI

- Understanding generative AI models
- Prompt engineering basics
- Azure OpenAI deployment fundamentals
- Responsible use of generative AI

4. Azure AI Search & Knowledge Mining

- Creating search indexes
- Semantic search capabilities
- AI-powered search enrichment
- Data source integration

5. Anomaly Detection & Forecasting

- Time series analysis and anomaly detection
- Predictive analytics use cases
- Monitoring and alerting with AI

Study Topics

AI Fundamentals - Supervised learning, unsupervised learning, neural networks, deep learning basics

Azure Services - Configuring vision, speech, and language services; API authentication and endpoints

Responsible AI - Ethical frameworks, bias mitigation, transparency, fairness in AI systems

Generative AI - ChatGPT concepts, prompt design, limitations, responsible usage

Implementation Patterns - Use cases for each service, data pipeline basics, integration approaches

Recommended Study Path

1. Review Microsoft Learn modules (free)
2. Complete AI-900 study guide
3. Take practice exams
4. Explore Azure AI services in portal
5. Review real-world AI case studies

Key Resources

- Microsoft Learn: learn.microsoft.com
- Official Study Guide: Microsoft Docs
- Practice Tests: Whizlabs, Examtopics
- Azure Portal: Free tier for exploration

Success Tips

- Understand ML vs DL vs AI concepts clearly
- Know when to use each Azure AI service
- Master responsible AI principles
- Review case studies and use cases
- Focus on foundational concepts, not deep technical details