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**Learning Style: On Demand**

**Technology: Microsoft**

**Difficulty: Beginner**

**Course Duration: 3 Hours**

## **Microsoft Azure AI Fundamentals (AI-900T00)**



### **About This Course:**

This course is an entry-level certification designed to provide foundational knowledge of artificial intelligence (AI) and its applications within Microsoft Azure. This certification is ideal for beginners looking to explore AI concepts such as machine learning, natural language processing, computer vision, and

conversational AI, along with understanding how these technologies are implemented using Azure service

## **Course Objectives:**

- Understand the fundamental principles of artificial intelligence (AI) and machine learning (ML).
- Identify the common AI workloads and the capabilities of Microsoft Azure AI services.
- Explore machine learning concepts and how Azure Machine Learning simplifies the model-building process.
- Gain insights into computer vision, including image analysis and object detection using Azure Cognitive Services.
- Learn the basics of natural language processing (NLP) and implement language understanding using Azure AI tools.
- Understand the role of conversational AI and create AI-powered chatbots with Azure Bot Framework.
- Recognize the importance of responsible AI and ethical considerations in AI development.
- Prepare effectively for the Microsoft AI-900 Certification Exam to validate your knowledge of AI fundamentals.

## **Audience:**

- Business professionals exploring the potential of AI for their organization.
- IT professionals looking to familiarize themselves with AI concepts and Azure AI services.
- Project managers overseeing AI-based projects and seeking foundational knowledge to better manage teams and workflows.

## **Prerequisites:**

- A basic understanding of AI concepts or an interest in exploring artificial intelligence and its applications.
- Familiarity with general computing and cloud concepts (helpful but not required).

- A willingness to learn about Azure services and their role in AI implementations.
- No programming or technical skills are required, making it accessible to non-technical professionals and beginners.

## **Course Outline:**

- Module 1: AI Overview
  - Lesson 1: Fundamental AI Concepts
  - Lesson 2: Fundamentals of machine learning
  - Lesson 3: Fundamentals of Azure AI services
- Module 2: Computer Vision
  - Lesson 1: Computer Vision Concepts
  - Lesson 2: Computer Vision Capabilities in Azure
- Module 3: Natural Language Processing
  - Lesson 1: Natural Language Processing Concepts
  - Lesson 2: Natural Language Processing Capabilities in Azure
- Module 4: Document Intelligence and Knowledge Mining
  - Lesson 1: Azure AI Document Intelligence
  - Lesson 2: Azure Cognitive Search
- Module 5: Generative AI
  - Lesson 1: Fundamentals of Generative AI
  - Lesson 2: Fundamentals of Azure OpenAI Service
  - Lesson 3: Responsible Generative AI