

MICROSOFT AI AZURE FUNDAMENTALS (AI-900)

Overview

This course provides foundational knowledge of AI concepts and Microsoft Azure services related to machine learning, computer vision, natural language processing, and conversational AI.

Course Objectives

- Understand basic AI workloads & principles
- Explore Azure AI services and tools
- Identify responsible AI practices

Duration

1 Day

Target Audience

- Beginners in AI or cloud technology
- Business & technical decision-makers
- Students exploring AI career paths

Learning Outcomes

- Understand fundamental AI concepts and workloads.
- Gain familiarity with Microsoft Azure AI services.
- Build and test simple AI models with Azure tools.
- Recognize and apply responsible AI practices.
- Be prepared to attempt the AI-900 certification exam.

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OUTLINE

Time	Module	Topic Coverage
8:30AM – 9:00AM	Registration	-
9:00AM – 10:30 AM	Module 1: Introduction to AI and Azure	- Defining Artificial Intelligence (AI) and common workloads - Key AI concepts: Machine Learning, Computer Vision, NLP, Conversational AI - Overview of Microsoft Azure AI ecosystem - Hands-on: Explore Azure Portal and AI services
	Module 2: Machine Learning on Azure	- What is Machine Learning? Core principles and use cases - Supervised vs. unsupervised learning explained - Introduction to Azure Machine Learning Studio - Hands-on: Build a simple no-code ML model using Azure ML Designer
10:30AM – 10:45 AM	Tea Break	-
10:45AM – 12:30 PM	Module 3: Conversational AI	- Introduction to conversational AI and chatbots - Microsoft Bot Framework overview - Hands-on: Create a simple QnA chatbot with Azure Bot Service
	Module 4: Natural Language Processing (NLP)	- Understanding text analytics, sentiment analysis, language translation - Azure Cognitive Services for NLP (Text Analytics, Translator, Speech) - Hands-on: Use Azure Cognitive Services to analyze customer feedback
12:30PM – 1:30 PM	Lunch Break	-

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1.30PM – 3:30PM	Module 5: Azure AI Services Overview	- Overview of Azure Cognitive Services categories: i. Vision (Face API, Computer Vision) ii. Speech (Speech-to-Text, Text-to-Speech) iii. Language (Text Analytics, Translator, Language Understanding) iv. Decision (Personalizer, Anomaly Detector) - Demo: Use prebuilt AI models for vision and speech recognition - Hands-on: Build an image classification model with Azure Custom Vision
3:30PM – 3:45PM	Tea Break	-
3:45PM – 5:00PM	Module 6: Responsible AI	- Principles of Responsible AI: Fairness, Reliability, Transparency, Privacy - Microsoft's AI principles in practice - Real-world case studies of ethical AI - Hands-on activity: Identify responsible AI practices in a sample scenario