

Designing and Implementing an Azure AI Solution on Edge Devices Training

Course Duration: 32 Hours

Course Code: AZ-220-AI-EDGE

1. Course Overview

Designing and Implementing an Azure AI Solution on Edge Devices Training focuses on building intelligent applications that run on edge devices using Microsoft Azure AI services. This course helps professionals design, deploy, and manage AI models locally while integrating with cloud capabilities for enhanced performance, scalability, and real-time decision-making.

2. What You'll Learn

- Introduction to Azure AI and Edge Computing
- Designing AI solutions for edge devices
- Working with Azure IoT Edge and AI services
- Deploying machine learning models on edge devices
- Managing and monitoring edge solutions
- Data processing and real-time analytics on edge
- Security and performance optimization

3. Target Audience

- AI Developers
- Data Engineers
- Cloud Solution Architects
- IoT Developers
- Software Engineers working with AI/ML

- IT Professionals interested in Edge Computing

4. Pre-Requisites

- Basic understanding of Microsoft Azure
- Knowledge of Python or any programming language
- Familiarity with Machine Learning concepts
- Basic understanding of IoT and cloud computing

5. Course Content

- Introduction to Azure AI and Edge Devices
- Overview of Azure IoT Edge Architecture
- Developing AI Models using Azure Machine Learning
- Containerization and Deployment on Edge Devices
- Integrating Azure Cognitive Services with Edge
- Data Collection and Processing at Edge
- Monitoring and Troubleshooting Edge Solutions
- Security and Compliance in Edge AI
- Real-world Use Cases and Hands-on Projects