MICROSOFT AZURE ADMINISTRATOR CERTIFICATION TRAINING (AZ-104)

Overview

Join **eMexo Technologies**, the top Microsoft Azure training institute in Electronic City, Bangalore, to become an expert Azure Administrator with hands-on, real-time training.

This AZ-104 course helps you learn core Azure administrative skills including managing Azure subscriptions, identities, storage, virtual machines, networking, and more. The course follows the **Microsoft Certified: Azure Administrator Associate** certification objectives and equips you for real-world job roles.

All topics are covered with practical examples and live labs. Trainers are Azure-certified professionals working in leading MNCs.

Training Features

- ✓ Real-life Case Studies
- ✓ Assignments after Each Session
- ✓ Free Demo Class Available
- ✓ Hands-On Labs & Projects
- ✓ 100% Job-Oriented Training
- ✓ Certification Guidance
- ✓ Expert Trainers with Industry Experience
- ✓ Interview Preparation & Mock Interviews

Course Curriculum

Unit 1: Introduction to Cloud Computing

Objective: In this module, you will get a basic understanding of Cloud Services and an introduction to Azure

➢ What is Cloud Computing
➢ Need for Cloud
➢ Characteristics of Cloud
➢ Categories of Services (IaaS, PaaS, SaaS)
➢ Cloud Providers Overview
➢ Azure – Overview, Architecture, Services
➢ Azure Regions and Availability Zones
➢ Azure Subscriptions and Resource Management

➢ **Hands-On:** Create an Azure Free Trial Account and explore Azure Portal

Unit 2: Azure Virtual Machines and Storage

Objective: Learn to deploy and manage VMs and storage accounts in Azure

- ➢ VM Architecture & Sizing
- ➢ Create/Manage VMs with Portal, CLI, and PowerShell
- ➢ Azure Disks (OS/Data/Managed/Unmanaged)
- ➢ VM Snapshots and Images
- ➢ Azure Storage Account Types
- ➢ Blob, File, Table, Queue Storage
- ➢ Storage Replication and Access Control

- ➢ **Hands-On:** Deploy a VM and manage storage accounts and blob containers

Unit 3: Azure Identity and Access Management

Objective: Understand Azure AD and how to manage identity and access in Azure

- ➢ Azure AD Overview
- ➢ Users, Groups, and Roles
- ➢ RBAC (Role-Based Access Control)
- ➢ Azure AD Connect (Hybrid Identity)
- ➢ Azure AD B2B/B2C
- ➢ Conditional Access Policies
- ➢ Multi-Factor Authentication

- ➢ **Hands-On:** Create users, assign roles, and enforce MFA in Azure AD

Unit 4: Azure Networking

Objective: Learn core Azure networking services and configuration

- ➢ Virtual Networks and Subnets
- ➢ IP Addressing and DNS in Azure
- ➢ Network Security Groups (NSG)
- ➢ Virtual Network Peering
- ➢ Azure Firewall and Bastion
- ➢ VPN Gateway and ExpressRoute
- ➢ Load Balancers and Application Gateways

- ➢ **Hands-On:** Create a secure virtual network with subnets and deploy VMs

Unit 5: Azure Resource Management and Governance

Objective: Learn to manage resources efficiently and apply governance in Azure

- ➢ Azure Resource Manager (ARM)
- ➢ ARM Templates and Deployments
- ➢ Tags and Naming Conventions
- ➢ Management Groups
- ➢ Azure Policy and Blueprints
- ➢ Resource Locks

➢ **Hands-On:** Use ARM templates and apply resource policies

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Unit 6: Azure Monitoring and Diagnostics

Objective: Monitor resources and set up alerts for proactive management

- ➢ Azure Monitor Overview
- ➢ Activity Logs and Diagnostic Logs
- ➢ Metrics and Alerts
- ➢ Log Analytics and Workbooks
- ➢ Azure Advisor Recommendations
- ➢ Azure Service Health

➢ **Hands-On:** Configure metrics, alerts, and monitor a running VM

Unit 7: Azure Backup and Recovery

Objective: Learn about data protection, backup, and disaster recovery in Azure

- ➢ Azure Backup Services
- ➢ VM Backup and Restore
- ➢ Azure Site Recovery (ASR)
- ➢ Recovery Vault Configuration
- ➢ RTO/RPO Planning
- ➢ File Sync and Snapshot

➢ **Hands-On:** Configure backup for VMs and perform restore

Unit 8: Azure Automation and Scripting

Objective: Automate tasks using scripting and automation tools

➢ Azure CLI and PowerShell
➢ Azure Cloud Shell
➢ Automation Accounts
➢ Runbooks and Schedules
➢ ARM Templates and Bicep Introduction

➢ **Hands-On:** Write scripts to automate VM deployment and schedule tasks

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Unit 9: Azure App Services and Containers

Objective: Deploy and manage web apps and containers on Azure

➢ Azure App Service Overview
➢ Deploying Web Apps
➢ App Service Plans and Scaling
➢ Azure Container Instances
➢ Azure Kubernetes Service (AKS) – Basics
➢ App Settings, Authentication, and Monitoring

➢ **Hands-On:** Deploy a sample app to Azure App Service

Unit 10: Projects

✓ Deploy a full VM-based web application infrastructure
✓ Secure a VNet with NSG, Firewalls, and RBAC
✓ Monitor and optimize VM and storage performance
✓ Automate VM backups and scaling
✓ Implement governance using Azure Policy

FAQs

Q1: Is this training hands-on?
Yes. You'll work on labs and projects in each module.

Q2: What's the course duration?
Around 30–35 hours (may vary depending on batch).

Q3: Do I get a certificate?
Yes, you get a **Training Completion Certificate from eMexo Technologies**.

Q4: What if I miss a class?
You'll get a repeat session or recorded content.

Q5: Do you help with placements?
Yes. We provide resume help, mock interviews, and job support.

Q6: Is fast-track available?
Yes, we offer 1:1 and fast-track learning plans.

Certification

After completing this training, you'll be fully ready to pass the **Microsoft Certified: Azure Administrator Associate (AZ-104)** exam.

We provide:
➤ Certification Syllabus Coverage
➤ Practice Questions & Mock Exams
➤ Hands-On Scenarios Matching the Exam
➤ Post-training Support Until You Clear the Exam