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A MSME REGISTERED STARTUP

MECHATRON LEARNING HUB

a business unit of Mechatron Technologies

Course Name: Microsoft Certified: Azure Administrator (AZ-104)

Course Duration: 42-45 hours

Course Overview

Begin your journey to mastering cloud administration with our comprehensive Azure Administrator AZ-104 course. This training covers essential topics such as Azure Active Directory, governance, and administration, enabling you to effectively manage identities, compliance, and resources.

You'll explore virtual networking and intersite connectivity to maintain secure network infrastructures, optimize network traffic, and manage Azure storage solutions. Gain hands-on experience with Azure Virtual Machines, delve into serverless computing with Azure services, and enhance your skills in data protection and monitoring. Our online training prepares you for real-world challenges in the Azure ecosystem.

Pre-requisites:

A basic understanding of M365 is sufficient to take this course.

Who Can Take This Course:

IT Professionals: Anyone with a keen interest in Azure or enthusiastic cloud users.

Administrators: Individuals with experience in network, system, or any form of administration.

Applicable Careers Include:

- Azure Administrator
- Database Administrators
- Security Administrators
- Storage Administrators
- Network Engineers
- DevOps Engineers
- Server Engineers
- Virtualization Engineers



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Course Syllabus:

Module 1: Cloud Computing Introduction

Cloud computing delivers on-demand access to computing resources like servers, storage, and databases over the internet for scalability and cost-efficiency.

- What is Cloud Computing
- Cloud Characteristics
- Cloud Computing Service Models
- Deployment Models in Cloud Computing
- Basics of IP Addressing and Virtualization
- OSI Model and Types of Networks

Module 2: Getting Started with Azure

Leverage Microsoft Azure's free tier to experiment with its comprehensive cloud services (storage, computing, database) for cost-effective development and deployment in a scalable, online environment.

- Introduction to Azure
- Why, What and Benefits of Azure
- Azure Hosting Models
- Azure Services
- Subscribing to Microsoft Azure
- Azure Portals
- Azure Key Concepts
- Azure Resource Group

Module 3: Manage Azure Identities and Governance (20–25%)

- Manage Microsoft Entra Users and Groups: Create and manage users and groups, handle licenses, and configure self-service password reset.
- Manage Access to Azure Resources: Oversee built-in roles, assign roles, and interpret access assignments.
- Manage Azure Subscriptions and Governance: Implement and manage policies, configure resource locks, manage tags, resource groups, subscriptions, and costs.

Module 4: Implement and Manage Storage (15–20%)

- Configure Access to Storage: Set up storage firewalls, virtual networks, shared access signatures, and access policies.
- Configure and Manage Storage Accounts: Create and configure storage accounts, redundancy, object replication, and encryption.
- Configure Azure Files and Blob Storage: Set up file shares, containers, storage tiers, snapshots, and lifecycle management.



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Course Syllabus:

Module 5: Deploy and Manage Azure Compute Resources (20–25%)

- Automate Deployment: Use ARM templates or Bicep files to deploy resources.
- Create and Configure Virtual Machines: Set up VMs, manage disks, sizes, availability zones, and scale sets.
- Provision and Manage Containers: Manage container registries, instances, and apps.
- Create and Configure Azure App Service: Set up App Service plans, scaling, certificates, DNS mapping, backups, and networking.

Module 6: Implement and Manage Virtual Networking (15–20%)

- Configure and Manage Virtual Networks: Create and configure virtual networks, subnets, and peering.
- Configure Secure Access: Set up network security groups, application security groups, Azure Bastion, service endpoints, and private endpoints.
- Configure Name Resolution and Load Balancing: Set up Azure DNS, load balancers, and troubleshoot issues.

Module 7: Monitor and Maintain Azure Resources (10–15%)

- Monitor Resources: Use Azure Monitor to interpret metrics, configure logs, set up alerts, and monitor resources.
- Implement Backup and Recovery: Create Recovery Services and Backup vaults, configure backup policies, perform backup and restore operations, and set up Azure Site Recovery.

Further Opportunities after completing course

Placements

At Mechatron Learning Hub, we strive to provide the best possible free of cost placement assistance services for our students to have them explore job opportunities.

Free Voucher

After course completion, we will schedule an online proctored exam. If you pass the exam, you will be eligible to get a free voucher to book a Microsoft certification exam

Global Certification

Our team of experienced educators is passionate about helping students succeed. We assist our learners to complete their exam and achieve a good exam score.