TechyEdz Solutions

Training | Consulting | Developement | Outsourcing

MCSA + Azure Admin

9032803832

9032803832

contact@techyedz.com

www.techyedz.com

MCSA + Azure Administration Combo Course

Course Overview:

This course combines the MCSA and Azure Administrator into a unified combo course. This course focuses on actual job task for windows server, implementing, monitoring and maintaining Microsoft Azure solutions including major services related to compute, storage, network and security. Additionally students learn how to advise stakeholders and translate business requirements into secure, scalable, and reliable solutions.

While attending this combo course - students will take four exams (70-740 / 70-741 / 70-742 / AZ-104) to achieve the Microsoft Certified System Associate and Microsoft Certified Associate Azure Administrator certifications. This hands on, instructor led live course teaches the knowledge to administer an Azure environment along with the knowledge needed for the certification exams which are administered while attending.

Course Outline:

70-740: Installation, Storage, and Compute with Windows Server 2016

- Install Windows Servers in Host and Compute Environments
- Implement Storage Solutions
- Implement Hyper-V
- Implement Windows Containers
- Implement High Availability
- Maintain and Monitor Server Environments

70-741: Networking with Windows Server 2016

- Implement Domain Name System (DNS)
- Implement DHCP and IPAM
- Implement Network Connectivity and Remote Access Solutions
- Implement Core and Distributed Network Solutions

- Implement an Advanced Network Infrastructure

70-742: Identity with Windows Server 2016

- Install and Configure Active Directory Domain Services (AD DS)
- Manage and Maintain AD DS
- Create and Manage Group Policy
- Implement Active Directory Certificate Services (AD CS)
- Implement Identity Federation and Access Solutions

Azure Administrator (AZ -104)

Course Outline:

Manage Azure identities and governance

1. Manage Azure AD objects

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts
- configure Azure AD Join
- configure self-service password reset
- NOT: Azure AD Connect; PIM

2. Manage role-based access control (RBAC)

- create a custom role
- provide access to Azure resources by assigning roles
  - subscriptions
  - resource groups
  - resources (VM, disk, etc.)
- interpret access assignments
- manage multiple directories

3. Manage subscriptions and governance

- configure Azure policies
- configure resource locks
- apply tags
- create and manage resource groups
  - move resources
  - remove RGs
- manage subscriptions
- configure Cost Management
- configure management groups

Implement and manage storage

1. Manage storage accounts

- configure network access to storage accounts
- create and configure storage accounts
- generate shared access signature
- manage access keys
- implement Azure storage replication
- configure Azure AD Authentication for a storage account

2. Manage data in Azure Storage

- export from Azure job
- import into Azure job
- install and use Azure Storage Explorer
- copy data by using AZCopy

3. Configure Azure files and Azure blob storage

- create an Azure file share
- create and configure Azure File Sync service
- configure Azure blob storage
- configure storage tiers for Azure blobs

Deploy and manage Azure compute resources

1. Configure VMs for high availability and scalability

- configure high availability
- deploy and configure scale sets

2. Automate deployment and configuration of VMs

- modify Azure Resource Manager (ARM) template
- configure VHD template
- deploy from template
- save a deployment as an ARM template
- automate configuration management by using custom script extensions

3. Create and configure VMs

- configure Azure Disk Encryption
- move VMs from one resource group to another
- manage VM sizes
- add data discs
- configure networking
- redeploy VMs

4. Create and configure containers

- create and configure Azure Kubernetes Service (AKS)
- create and configure Azure Container Instances (ACI)
- NOT: selecting an container solution architecture or product; container registry settings

5. Create and configure Web Apps

- create and configure App Service
- create and configure App Service Plans
- NOT: Azure Functions; Logic Apps; Event Grid

Configure and manage virtual networking

1. Implement and manage virtual networking

- create and configure VNET peering
- configure private and public IP addresses, network routes, network interface, subnets, and virtual network

2. Configure name resolution

- configure Azure DNS
- configure custom DNS settings
- configure a private or public DNS zone

3. Secure access to virtual networks

- create security rules
- associate an NSG to a subnet or network interface
- evaluate effective security rules
- deploy and configure Azure Firewall
- deploy and configure Azure Bastion Service
- NOT: Implement Application Security Groups; DDoS

4. Configure load balancing

- configure Application Gateway
- configure an internal load balancer
- configure load balancing rules
- configure a public load balancer
- troubleshoot load balancing
- NOT: Traffic Manager and FrontDoor and PrivateLink

5. Monitor and troubleshoot virtual networking

- monitor on-premises connectivity
- use Network Performance Monitor
- use Network Watcher
- troubleshoot external networking
- troubleshoot virtual network connectivity

6. Integrate an on-premises network with an Azure virtual network

- create and configure Azure VPN Gateway
- create and configure VPNs
- configure ExpressRoute
- configure Azure Virtual WAN

Monitor and back up Azure resources

1. Monitor resources by using Azure Monitor

- configure and interpret metrics
  - analyze metrics across subscriptions

- configure Log Analytics
  - implement a Log Analytics workspace
  - configure diagnostic settings
- query and analyze logs
  - create a query
  - save a query to the dashboard
  - interpret graphs
- set up alerts and actions
  - create and test alerts
  - create action groups
  - view alerts in Azure Monitor
  - analyze alerts across subscriptions
- configure Application Insights
- NOT: Network monitoring

2. Implement backup and recovery

- configure and review backup reports
- perform backup and restore operations by using Azure Backup Service
- create a Recovery Services Vault
  - use soft delete to recover Azure VMs
- create and configure backup policy
- perform site-to-site recovery by using Azure Site Recovery
- NOT: SQL or HANA

Who Should Attend:

- All students who start their Microsoft servers study.
- Help Desk who wants to improve to next level as a system admin.
- System admins and engineers who want to study server 2016 in details
- All professional who want to be ready for their MCSA 2016 certificates.

Number of Hours: 80hrs

Certification: 70-740, 70-741, 70-742 & AZ-104

Key Features:

- One to One Training

- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- Virtual Live Experience
- Preparing for Certification