Microsoft Certified Systems Engineer (MCSE)

(Microsoft Certification Mapped Curriculum)

Network Essentials

- ➤ Networking Concepts, History of Server OS
- Introduction to windows server 2012 R2 / 2016 / 2019 / 2022
- ➤ Features of Windows Server 2019/2022
- ➤ Installation of Windows Server 2019
- ➤ Installation of Windows Server 2022
- ➤ Installation of Windows 10
- ➤ Introduction and Creation of Users accounts

Active Directory - Domain Services

➤ IP Addressing Course Curriculum

Physical Structure of AD-DS

- Logical Topologies Peer-Peer & Domain Models
- ➤ Introduction to Directory Services
- Evolution of Active Directory Services LDAP Protocol
- > Features of Active Directory
- Installing Active Directory Domain Controller

Member Servers, Clients, User Configuration

- Configuring Member Servers and Clients
- Creating Users in AD-DS
- User Logon policies
- Password policies
- > Account Lockout policies
- User properties

Permissions / Access Control Lists

- ➤ File Systems
- Security and Sharing Permissions Folders & Files
- Configuring Map Network Drive
- Access Based Enumeration

Profiles and File Server Resource Manager [FSRM]

- Types of Profiles Local & Roaming
- ➤ Home Folder
- Configuring Quotas using FSRM
- Implementing File Screening using FSRM
- Configuring Storage Reports Management
- ➤ Introduction to Distributed File System
- Creating Organizational Unit
- Delegating Control to a User

Logical Structure of AD - DS

- Configuring ADC
- > Tree Structure Child Domain
- ➤ Forest Structure

FSMO Roles of AD - DS

- > Roles of AD DS
- > Transferring of Roles
- Seizing of Roles

Group Policy / System Policies

- User and Computer Policies
- Scope of Policies OU, Domain, Sites
- Group Policy Modeling (RSOP)

Active Directory Trusts

- ➤ Introduction to Trust Relationship
- Categories, Directions & Types of Trusts
- > Functional Levels
 - Authentication Protocols Controller
 - Sites and Global Catalog
 - Replication between the Domain Controllers
 - ➤ AD-DS Partitions
 - ➤ Active Directory Recycle Bin

Dynamic Host Configuration Protocol (DHCP)

- ➤ Introduction and Configuration of DHCP Server
- > DHCP Client Configuration
- Reservations

- ➤ DHCP Backup and Configuring DHCP Failover
- ➤ Configuring Forest Trusts between 2022 Forests

Domain Name System (DNS)

- Internet Basics, Host & LM Host Files
- > DNS Naming Hierarchy
- Lookup Zones Forward and Reverse lookup Zones
- ➤ Types of Zones Primary, Secondary & Stub Zone
- Resource Records, Integration with ADS, SRV Records
- Forwarders, Dynamic Updates

Internet Information Services (IIS)

- ➤ IIS 10.0 Configuration
- ➤ Hosting Websites, Virtual Directories
- Redirecting Web Sites
- ➤ Backup & Restoring Sites
- > FTP Sites

Windows Deployment Services

- Introduction and Configuration of WDS Server
- > Attended and Unattended Installation

Microsoft Hyper-V

- ➤ Installation of Hyper V
- Configuring Virtual Machine
- Configuring Virtual Networks
- Configuring Virtual Hard disks
- Configuring Hyper-V Replica

Remote Access Service

- Remote Access Server Configuration
- ➤ NAT and VPN PPTP

Remote Desktop Services

- Remote Administration Mode
- Upgrading Windows Server 2016 to 2019/2022
- ➤ Configuring NLB cluster
- Overview of NAP

Storage Technologies

- > Types of HDDs, partition creation, extension, shrinking, deletion
- Understanding File systems
- ➤ Introduction to Storage spaces and Storage Pools
- ➤ Configuring Simple Volume (RAID 0)
- Configuring Mirror Volume (RAID 1)
- Configuring Parity Volume (RAID 5)
- Understanding iSCSI Target and Initiator

Windows Server Backup

- > Data backup and restore
- Backup system state data (AD DS)
- > Authoritative and Non-Authoritative restore