



COMPUTER ADMINISTRATION (APPLICATION)

MCSE

MCSE - MICROSOFT CERTIFIED SYSTEM EXPERT (Windows Server 2012) Exchange server, hardware&networking pre-requisites

Introduction

In today's rapidly changing IT marketplace, **Microsoft Certifications** are designed to play an important role in assisting the IT professional to utilize advancing technologies, fine tuning troubleshooting skills and improving job satisfaction. A certification from Microsoft also confirms your demonstrated experience and knowledge in using Microsoft products and solutions.

The **MCSE** (Microsoft Certified IT Professional) certification is the 'big' certification from Microsoft designed to validate a professional's proven job role capabilities. With the **MCSE certification**, an individual can be distinguished as an IT professional with the comprehensive set of Microsoft technologies / skills necessary to perform a particular job role. The **MCSE certification** can highlight your field of expertise since there are several concentrations within this one certification.

MCSE Course Contents

- Advanced Terminal Services
- T.S Web Access Administration, Remote Apps. Etc.,
- Managing a Microsoft Windows 2012 Network Environment.
- Configuring Read-Only Domain Controller
- Designing Microsoft Windows 2012 Active Directory Infrastructure, Network Infrastructure, Application Infrastructure.
- Windows Server Core

MCSE Course Contents

<p>Network Essentials</p> <ul style="list-style-type: none"> • Networking Concepts, History of Server OS • Introduction to windows server 2008 & 2012 • Features of Windows Server 2012 • Installation of Windows Server 2012 • Introduction and Creation of Users accounts • Conversion of GUI to Server Core • Conversion of Server Core to GUI 	<p>RODC & Physical Structure of AD-DS</p> <ul style="list-style-type: none"> • Introduction & Configuration of Read-Only Domain Controller • SITES and Global Catalog • Backup Strategies • Replication between the Domain Controllers • AD-DS Partitions • Configuring A.D.C using Install From Media [IFM]
<p>Active Directory - Domain Services</p> <ul style="list-style-type: none"> • IP Addressing • 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 	<p>Dynamic Host Configuration Protocol (DHCP)</p> <ul style="list-style-type: none"> • Introduction and Configuration of DHCP Server • DHCP Client Configuration • Reservations • BOOTP Server • DHCP Backup • Configuring DHCP Failover
<p>Member Servers, Clients, User Configuration</p> <ul style="list-style-type: none"> • Configuring Member Servers and Clients. • Creating Users in AD-DS • User Logon policies • Password policies • Account Lockout policies • User properties 	<p>Domain Name System (DNS)</p> <ul style="list-style-type: none"> • 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
<p>Permissions/Access Control Lists</p> <ul style="list-style-type: none"> • File Systems 	<p>Microsoft Hyper -V</p> <ul style="list-style-type: none"> • Installation of Hyper – V • Configuring Virtual Machine

<ul style="list-style-type: none"> • Security and Sharing Permissions - Folders & Files • Offline Folders 	<ul style="list-style-type: none"> • Configuring Virtual Networks • Configuring Virtual Hard disks 		
<p>Profiles and File Server Resource Manager [FSRM]</p> <ul style="list-style-type: none"> • Types of Profiles – Local & Roaming • Home Folder • Configuring Quotas using FSRM • Implementing File Screening using FSRM • Configuring Storage Reports Management. 	<p>Internet Information Services(IIS)</p> <ul style="list-style-type: none"> • IIS 8.0 Configuration • Hosting Websites, Virtual Directories • Redirecting Web Sites • Backup & Restoring Sites • FTP Server Configuration 		
<p>Distributed File System</p> <ul style="list-style-type: none"> • Creating Organisational Unit • Delegating Control to a User • Active Directory Recycle Bin • DFS Namespace • DFS Folders 	<table border="1" data-bbox="767 853 1374 913"> <tr> <td data-bbox="767 853 1070 913"></td> <td data-bbox="1070 853 1374 913"></td> </tr> </table> <p>Permissions/Access Control Lists</p> <ul style="list-style-type: none"> • File Systems • Security and Sharing Permissions - Folders & Files • Offline Folder 		
<p>Logical Structure of AD - DS</p> <ul style="list-style-type: none"> • Configuring ADC • Tree Structure - Child Domain • Forest Structure 	<p>Routing & Remote Access</p> <ul style="list-style-type: none"> • Routing Configuration - Static Routes • NAT, DHCP Relay Agent • Remote Access Server Configuration • VPN - PPTP 		
<p>FSMO Roles of AD - DS</p> <ul style="list-style-type: none"> • Roles of AD - DS • Transferring of Roles • Seizing of Roles 	<p>Windows Deployment Services</p> <ul style="list-style-type: none"> • Introduction & Configuration of WDS Server • Attended & Unattended Installation 		

<p>Group Policy / System Policies</p> <ul style="list-style-type: none"> • User and Computer Policies • Scope of Policies ◈ OU, Domain, Sites • Group Policy Modeling (RSOP) • Software Deployment • Scripts, Folder Redirection • Group Policy Preferences 	<p>Disk Management</p> <ul style="list-style-type: none"> • Basic & Dynamic Disks • Types of Volumes • RAID 0, 1, 5 Levels • Remote Hard disk Partitioning • Mounting Concepts
<p>Active Directory Trusts</p> <ul style="list-style-type: none"> • Introduction to Trust Relationship • Categories, Directions & Types of Trusts • Functional Levels • Authentication Protocols • Configuring Forest Trusts between 2012 Forests 	<p>Advanced Topics</p> <ul style="list-style-type: none"> • Windows Server Backup • Introduction to print server • Upgrading Windows Server 2008 to 2012 • Overview of AD- FS, LDS, RMS, CS
<p>Remote Desktop Services</p> <ul style="list-style-type: none"> • Remote Administration Mode 	<p>Storage Technologies</p> <ul style="list-style-type: none"> • Configuring iSCSI Target and Initiator • Introduction to Storage spaces and Storage Pools • Configuring Simple Volume (RAID – 0) • Configuring Mirror Volume (RAID – 1) • Configuring Parity Volume (RAID – 5)

Duration

2 Month (104 hours theory and 78 hours practical)