

This course was developed for IT professionals who need to design, plan, implement and support Microsoft Windows 2003 and 2008 Networks or who plan to take the related MCITP and MCTS exams. The course will be implemented on Registered Domain Names with valid public IP addresses. The training will be given by Senior System/Network engineers with several years of field experience.

Course Contents

- Network & Operating System Essentials
- LDAP, Active Directory functionality
- Installing, Configuring & Administering the following Microsoft Servers
 - Microsoft Windows 2008 Server
 - IIS 7.0, DHCP, DNS, RAS, VPN
- Advanced Terminal Services
 - T.S Web Access Administration, Remote Apps. Etc.,
- Configuring Read-Only Domain Controller
- Managing a Microsoft Windows 2008 Network Environment
- Designing Microsoft Windows 2008 Active Directory Infrastructure, Network Infrastructure, Application Infrastructure.
- Windows Server Core
- Microsoft Exchange Server 2007

MCITP
(Windows Server 2008)
Enterprise Administrator
+
Server Administrator

Course Details

Networking Essentials

- Networking concepts, History of server OS
- Introduction to windows server 2003 & 2008
- Features of Windows server 2008
- Installation of windows server 2008
- Installation of windows Vista
- Introduction and Creation of Users accounts

Active Directory - Domain Services

- IP Addressing
- Logical Topologies, Peer to peer & Domain Models
- Introduction to Directory Services
- Evolution of 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
- Offline Folders

User Profiles

- Types of Profiles
- Local, Roaming and Mandatory Profiles
- Home Folder
- Disk Quotas

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

- Organizational Unit, Delegation of Control
- User & Computer Policies
- Scope of Policies - OU, Domain, Sites
- Group policy modeling (RSOP)
- Software Deployment
- Scripts, Folder Redirection

Active Directory Trusts

- Introduction to Trust Relationship
- Categories, Directions & Types of Trusts
- Functional Levels
- Authentication Protocols
- Configuring Forest Trusts between 2008 Forests

RODC & Physical Structure of AD-DS

- Introduction & Configuration of Read-Only Domain Controller
- SITES and Global Catalog
- Replication between the Domain Controllers
- AD-DS Partitions

Dynamic Host Configuration Protocol (DHCP)

- Introduction and Configuration of DHCP Server
- DHCP Client Configuration
- Reservations
- BOOTP Server
- DHCP Backup

Windows Deployment Services

- Introduction & Configuration of WDS Server
- Attended & Unattended Installation

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 7.0 Configuration
- Hosting Websites, Virtual Directories
- Backup & Restoring Sites
- FTP Server Configuration

Routing & Remote Access

- Routing Configuration - Static Routes
- ICS, NAT, DHCP Relay Agent
- Remote Access Server Configuration
- Dial-in & Dial-out
- VPN - PPTP, L2TP

Terminal Services

- Terminal Server Configuration
- Terminal Server Licensing Mode
- Remote Desktop
- T.S Web access administration and T.S Remote Apps.
- Overview of T.S Gateway service & T. S. session broker

Disk Management

- Basic & Dynamic Disks
- Types of Volumes
- RAID 0, 1, 5 Levels
- Remote Harddisk Partitioning
- Mounting Concept

Windows Server Core

- Installation of Windows Server Core 2008
- Basic Commands of Server Core
- Installation, Managing & Uninstalling Server Core Features & roles
- Remote Management of Server Core

Advanced Topics

- Introduction to DFS & File server
- Configuring Namespace, Folders etc
- Introduction to Backup & Backup media
- Types of Backups & Strategies
- Recovery of Data from any backup media
- System state backup & restoration
- Overview of AD- FS, LDS, RMS, CS
- Upgrading windows server 2003 to 2008
- Groups, VSS, Paging File

Live Setup - Demo by Faculty Designing, Implementing & Maintaining a Corporate Network

Separate Course (Duration : 1 Week)

Microsoft Exchange Server 2007 (Mail Server)

- Introduction to Exchange Server Roles (Mailbox Server, Client Access, Hub Transport, Unified Messaging, Edge Transport)
- Creating Types of Mailbox (User, Room Equipment, Linked) and Recipients (Mailbox User, Mail User, Mail Contact, Distribution Group)
- Configuration of Clients (Outlook Web Access, WindowsMail, Outlook)
- Managing Mailbox Permissions, Storage Groups, Databases and Public Folders.
- Configuring Local Continuous Replication,
- Backup and Recovery of E-mails using Windows Mail, Outlook.
- Controlling Message Flow using Transport Rules, Message Tracking.
- Configuring Send and Receive Connectors, Address List.