

MICROSOFT CERTIFIED SYSTEM ENGINEER (MCSE) Training program



A TRAINING PROGRAM IS DESIGNED AND DEVELOPED BY CERTIFIED AND EXPERIENCED TRAINERS

This highly specialized and concentrated Program is ideally suited to following individuals who are:

- **Fresh University Graduates and like to pursue a career in Computer's networking.**
- **Already working and interested to switch over to field in Networking.**
- **Already working in a Networking position and like to excel in terms of better position and compensation.**
- **Already working in a Network Position in Companies and want to get the certification in International market.**

Program is offered by: 3D Educators – Trainers & Consultants

Table of Contents

Detail

Inauguration

Structure

Topics & Time Allocation

Other Learning Activities

About the Program Designer & Instructor

Syllabus

3D EDUCATORS

TRAINERS & CONSULTANTS

Program Details

Inauguration

The Training Program will be inaugurated by a senior member of 3DEducators

Program Structure

Number of classes in a week	Three Class Per Week
Duration of each class	2 - Hour
Fee Per Paper:	Rs.2800/- Only
Total Paper	Five
Total Fee	Rs.14000/- Only

Other Learning Activities:

Classroom Assignments	2
Presentations by Trainees	2

About the Program Designer & Instructor

The Profile of Program Designers & Instructors is given below:

The “**Microsoft Certified System Engineer**” Program has been designed by the Microsoft Company as an International Certification. Where its credibility is so high and people will earn the international recognition after having this course and certification. This course is conducted by the Senior Network Administrators and Network Managers.

The Person are qualified and certified in Networking and MCS and MCSE, MCSA, CCNA.

At present, faculty is working with IT Company as in a senior position, also involved in training and development for last fourteen years.

3D EDUCATORS

TRAINERS & CONSULTANTS

Program Syllabus

- ❖ (2272) Implementing & Supporting MS Windows XP Professional (Microsoft Official Curriculum)
- ❖ (2273) Managing and Maintaining a Microsoft Windows Server 2003 Environment (Microsoft Official Curriculum)
- ❖ (2277+2278) Implementing, Managing, & Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services + Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (Microsoft Official Curriculum)
- ❖ (2279+2282) Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure + Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (Microsoft Official Curriculum)
- ❖ (2400) Implementing and Managing Microsoft Exchange Server 2003 (Exam 70-284) (Microsoft Official Curriculum)

3D EDUCATORS

TRAINERS & CONSULTANTS

(2272) Implementing & Supporting MS Windows XP Professional (Microsoft Official Curriculum)

Course Contents:

1. Module 1: Installing Microsoft Windows XP Professional
 - Planning an Installation of Microsoft Windows XP Professional
 - Installing Windows XP Professional from a Product CD
 - Installing Windows XP Professional over a Network
 - Upgrading to Microsoft Windows XP Professional.
 - Transferring User Settings by Using the USMT
 - Activating Windows XP Professional
 - Troubleshooting Failed Installations
2. Module 2: Automating an Installation of Microsoft Windows XP Professional
 - Introduction to Automating an Installation of Windows XP Professional
 - Creating Answer Files
 - Creating a Uniqueness Database File
 - How Setup Uses Answer Files and UDFs
 - Performing an Automated Installation of Windows XP Professional
 - Introduction to Creating and Deploying an Image
 - Preparing a Reference Computer
 - Creating, Testing, and Deploying an Image
 - Remote Installation Services
3. Module 3: Configuring Hardware on a Computer Running Microsoft Windows XP Professional
 - Installing and Configuring Hardware Devices
 - Working with Drivers
 - Troubleshooting Hardware Devices
4. Module 4: Managing Disks
 - Working with Disk Management
 - Working with Basic Disks
 - Working with Dynamic Disks

- Preparing Disks When Upgrading to Windows XP Professional
 - Managing Disks
 - Defragmenting Volumes
5. Module 5: Configuring and Managing File Systems
- Working with File Systems
 - Managing Data Compression
 - Securing Data by Using EFS
6. Module 6: Troubleshooting the Boot Process and Other System Issues
- Examining the Windows XP Professional Boot Process
 - Controlling System Settings During the Boot Process
 - Changing Startup Behavior Using the Boot.ini File
 - Using Advanced Boot Options to Troubleshoot Startup Problems
 - Using the Recovery Console to Start the Computer
 - Restoring a Computer to a Previous State
7. Module 7: Configuring the Desktop Environment
- Configuring User Desktop Settings
 - Customizing the Desktop Environment
 - Configuring System Settings

 - Understanding How User Profiles and Group Policy Affect Desktop Customization

 - Using Remote Assistance
8. Module 8: Configuring TCP/IP Addressing and Name Resolution
- Configuring IP Addresses
 - Troubleshooting IP Addresses
 - Determining TCP/IP Name Resolution Methods
 - Configuring a DNS and WINS Client
 - Connecting to a Remote Host
9. Module 9: Configuring Microsoft Windows XP Professional to Operate in Microsoft Windows Networks
- Examining Workgroups and User Accounts
 - Creating and Authenticating Local User Accounts

- Configuring Local Security
 - Configuring Logon Options in a Workgroup
 - Configuring Networking Options in a Workgroup
 - Joining a Domain
 - Operating in a Domain
10. Module 10: Supporting Remote Users
- Establishing Remote Access Connections
 - Connecting to Virtual Private Networks
 - Configuring Inbound Connections
 - Configuring Authentication Protocols and Encryption
 - Using Remote Desktop
 - Storing User Names and Passwords to Facilitate Remote Connections
11. Module 11: Configuring Microsoft Windows XP for Mobile Computing
- Configuring Hardware for Mobile Computing
 - Configuring Power Management Options for Mobile Computing
 - Making Files, Folders, and Web Pages Available for Offline Use
12. Module 12: Monitoring Resources and Performance
- Determining System Information
 - Using Task Manager to Monitor System Performance
 - Using Performance and Maintenance Tools to Improve Performance
 - Monitoring Event Logs
 - Configuring Program Compatibility

(2273) Managing and Maintaining a Microsoft Windows Server 2003 Environment (Microsoft Official Curriculum)

Course Descriptions:

This course is intended for individuals who are employed as or seeking employment as a systems administrator or systems engineer.

Prerequisites:

Before attending this course, students must have:

- CompTIA A+ certification, or equivalent knowledge and skills.

- CompTIA Network+ certification, or equivalent knowledge and skills.

Course Contents:

1. Module 1: Introduction to Administering Accounts and Resources
 - Multimedia: Introduction to Administering Accounts and Resources
 - The Windows Server 2003 Family
 - Logging on to Windows Server 2003
 - Installing and Configuring Administrative Tools
 - Creating User Accounts
 - Creating Computer Accounts
 - Creating an Organizational Unit
2. Module 2: Managing User and Computer Accounts
 - Modifying Users and Computer Account Properties
 - Enabling and Unlocking User and Computer Accounts
 - Creating a User Account Template
 - Locating User and Computer Accounts in Active Directory
 - Saving Queries
 - Resetting User and Computer Accounts
 - Moving Domain Objects
3. Module 3: Managing Groups
 - Creating Groups
 - Managing Group Membership
 - Strategies for Using Groups
 - Modifying Groups
 - Using Default Groups
 - Best Practices for Managing Groups
4. Module 4: Managing Access to Resources
 - Overview of Managing Access to Resources
 - Managing Access to Shared Folders
 - Managing Access to Files and Folders Using NTFS Permissions
 - Determining Effective Permissions

- Managing Access to Shared Files Using Offline Caching
5. Module 5: Implementing Printing
 - Multimedia: Introduction to Printing in the Windows Server 2003 Family
 - Installing and Sharing Printers
 - Managing Access to Printers Using Shared Printer Permissions
 - Managing Printer Drivers
 - Implementing Printer Locations
 6. Module 6: Managing Printing
 - Changing the Location of the Print Spooler
 - Setting Printer Priorities
 - Scheduling Printer Availability
 - Configuring a Printing Pool
 7. Module 7: Managing Access to Objects in Organizational Units
 - Multimedia: The Role of the Organizational Unit
 - Modifying Permissions for Active Directory Objects
 - Delegating Control of Organizational Units
 8. Module 8: Implementing Group Policy
 - Implementing GPOs
 - Implementing GPOs on a Domain
 - Managing the Deployment of Group Policy
 9. Module 9: Managing the User Environment by Using Group Policy
 - Configuring Group Policy Settings
 - Assigning Scripts with Group Policy
 - Configuring Folder Redirection
 - Determining Applied GPOs
 10. Module 10: Introduction to Security in Windows Server 2003
 - Overview of Security in Windows Server 2003
 - Using Security Templates to Secure Computers
 - Testing Computer Security Policy
 - Configuring Auditing

- Managing Security Logs
- 11. Module 11: Preparing to Administer a Server
 - Administering a Server
 - Configuring Remote Desktop to Administer a Server
 - Managing Remote Desktop Connections
- 12. Module 12: Preparing to Monitor Server Performance
 - Introduction to Monitoring Server Performance
 - Performing Real-Time and Logged Monitoring
 - Configuring and Managing Counter Logs
 - Configuring Alerts
- 13. Module 13: Monitoring Server Performance
 - Monitoring Server Memory
 - Monitoring Processor Usage
 - Monitoring Disks
 - Monitoring Network Usage
- 14. Module 14: Maintaining Device Drivers
 - Configuring Device Driver Signing Options
 - Using Device Driver Rollback
- 15. Module 15: Managing Disks
 - Preparing Disks
 - Managing Disk Properties
 - Managing Mounted Drives
 - Converting Disks
 - Creating Volumes
 - Importing a Foreign Disk
- 16. Module 16: Managing Data Storage
 - Managing File Compression
 - Configuring File Encryption
 - Implementing Disk Quotas
- 17. Module 17: Managing Disaster Recovery

- Preparing for Disaster Recovery
 - Backing Up Data
 - Scheduling Backup Jobs
 - Restoring Data
 - Recovering from Server Failure
 - Selecting Disaster Recovery Methods
18. Module 18: Maintaining Software by Using Software Update Services
- Introduction to Software Update Services
 - Installing and Configuring Software Update Services
 - Managing a Software Update Services Infrastructure

(2277+2278) Implementing, Managing,& Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services + Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (Microsoft Official Curriculum)

Course Contents:

Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services

(Course 2277)

1. Module 1: Configuring Routing by Using Routing and Remote Access
 - Multimedia: The Role of Routing in the Network Infrastructure
 - Enabling and Configuring the Routing and Remote Access Service
 - Configuring Packet Filters
2. Module 2: Allocating IP Addressing by Using Dynamic Host Configuration Protocol (DHCP)
 - Multimedia: The Role of DHCP in the Network Infrastructure
 - Adding and Authorizing a DHCP Server Service
 - Configuring a DHCP Scope
 - Configuring a DHCP Reservation
 - Configuring DHCP Options
 - Configuring a DHCP Relay Agent
3. Module 3: Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)
 - Managing a DHCP Database

- Monitoring DHCP
 - Applying Security Guidelines for DHCP
4. Module 4: Resolving Names
- Multimedia: Introduction to the Name Resolution Process
 - Viewing Names on a Client
 - Configuring Host Name Resolution
 - Configuring NetBIOS Name Resolution
5. Module 5: Resolving Host Names by Using Domain Name System (DNS)
- Multimedia: The Role of DNS in the Network Infrastructure
 - Installing the DNS Server Service
 - Configuring the Properties for the DNS Server Service
 - Configuring the DNS Zones
 - Configuring DNS Zone Transfers
 - Configuring DNS Dynamic Updates
 - Configuring a DNS Client
 - Delegating Authority for Zones
6. Module 6: Managing and Monitoring Domain Name System (DNS)
- Configuring the Time-to-Live Value
 - Configuring Aging and Scavenging
 - Integrating DNS and WINS
 - Testing the DNS Server Configuration
 - Verifying that a Resource Record Exists by Using Nslookup, DNSCmd, and DNSLint
 - Monitoring DNS Server Performance
7. Module 7: Resolving NetBIOS Names by Using Windows Internet Name Service (WINS)
- Multimedia: The Role of WINS in the Network Infrastructure
 - Installing and Configuring a WINS Server
 - Managing Records in WINS
 - Configuring WINS Replication
 - Managing the WINS database
8. Module 8: Securing Network Traffic by Using IPsec and Certificates

- Implementing IPsec
 - Implementing IPsec with Certificates
 - Monitoring IPsec
9. Module 9: Configuring Network Access
- Introduction to a Network Access Infrastructure
 - Configuring a VPN Connection
 - Configuring a Dial-up Connection
 - Configuring a Wireless Connection
 - Controlling User Access to a Network
 - Centralizing Network Access Authentication and Policy Management by Using IAS

Planning & Maintaining a Microsoft Windows Server 2003 Network Infrastructure

(Course 2278)

1. Module 1: Introducing Windows Server 2003 Network Infrastructure Planning, Tools, and Documentation
 - Introducing the Network Design
 - Planning a Windows Server 2003 Network Infrastructure Project
2. Module 2: Planning and Optimizing a TCP/IP Physical and Logical Network
 - Planning a Functional TCP/IP Solution
 - Evaluating Network Performance
3. Module 3: Planning and Troubleshooting Routing and Switching
 - Selecting Intermediate Devices
 - Planning an Internet Connectivity Strategy
 - Planning Routing Communications
 - Troubleshooting TCP/IP Routing
4. Module 4: Planning, Optimizing, and Troubleshooting DHCP
 - Planning a DHCP Strategy
 - Securing a DHCP Solution
 - Optimizing DHCP
 - Troubleshooting DHCP
5. Module 5: Planning a DNS Strategy

- Planning DNS Servers
 - Planning a Namespace
 - Planning Zones
 - Planning Zone Replication and Delegation
 - Integrating DNS and WINS
6. Module 6: Optimizing and Troubleshooting DNS
- Optimizing DNS Servers
 - Troubleshooting Host Name Resolution
7. Module 7: Planning and Optimizing WINS
- Planning a WINS Solution
 - Identifying WINS Optimization Requirements
 - Optimizing WINS Traffic
8. Module 8: Planning and Troubleshooting IPsec
- Understanding Default Policy Rules
 - Planning an IPsec Deployment
 - Troubleshooting IPsec Communications
9. Module 9: Planning Network Access
- Introducing Network Access
 - Selecting Network Access Connection Methods
 - Selecting a Remote Access Policy Strategy
 - Selecting a Network Access Authentication Method
 - Planning a Network Access Strategy
10. Module 10: Troubleshooting Network Access
- Troubleshooting Network Access Resources
 - Troubleshooting LAN Authentication
 - Troubleshooting Remote Access
11. Module 11: Planning a Windows Server 2003 Network Infrastructure
- Introducing Planning Documentation
 - Preparing Development and Test Environments
 - Managing and Maintaining the Environment

(2279+2282) Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure + Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (Microsoft Official Curriculum)

Course Contents:

Planning, Implementing and Maintaining a Microsoft Windows Server 2003 Active Directory
(Course 2279)

Module 1: Introduction to Active Directory Infrastructure

- The Architecture of Active Directory
- How Active Directory Works
- Examining Active Directory
- The Active Directory Design, Planning, and Implementation Processes

Module 2: Implementing an Active Directory Forest and Domain Structure

- Creating a Forest and Domain Structure
- Examining and Configuring Active Directory Integrated DNS
- Raising Forest and Domain Functional Levels
- Creating Trust Relationships

Module 3: Implementing an Organizational Unit Structure

- Creating and Managing Organizational Units
- Delegating Administrative Control for Organizational Units
- Planning an Organizational Unit Strategy

Module 4: Implementing User, Group, and Computer Accounts

- Introduction to Accounts
- Creating and Managing Multiple Accounts
- Implementing User Principal Name Suffixes
- Moving Objects in Active Directory
- Planning an Account Strategy
- Planning an Active Directory Audit Strategy

Module 5: Implementing Group Policy

- Creating and Configuring Group Policy objects (GPOs)
- Configuring Group Policy Refresh Rates and Group Policy Settings

- Managing GPOs
- Verifying and Troubleshooting Group Policy
- Delegating Administrative Control of Group Policy
- Planning a Group Policy Strategy for the Enterprise

Module 6: Deploying and Managing Software by Using Group Policy

- Introduction to Managing Software Deployment
- Deploying Software
- Configuring Software Deployment
- Maintaining Deployed Software
- Troubleshooting Software Deployment
- Planning a Software Deployment Strategy

Module 7: Implementing Sites to Manage Active Directory Replication

- Introduction to Active Directory Replication
- Creating and Configuring Sites
- Managing Site Topology
- Troubleshooting Replication Failures
- Planning a Site

Module 8: Implementing the Placement of Domain Controllers

- Implementing the Global Catalog in Active Directory
- Determining the Placement of Domain Controllers in Active Directory
- Planning the Placement of Domain Controllers

Module 9: Managing Operations Masters

- Introduction to Operations Master Roles
- Transferring and Seizing Operations Master Roles
- Planning the Placement of Operations Masters

Module 10: Maintaining Active Directory Availability

- Introduction to Maintaining Active Directory
- Moving and Defragmenting an Active Directory Database
- Backing Up Active Directory

- Restoring Active Directory
- Planning for Monitoring Active Directory

Module 11: Planning and Implementing an Active Directory Infrastructure

- Creating an Active Directory Implementation Plan for Tailspin Toys
- Implementing the Active Directory Infrastructure for Tailspin Toys

Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (Course 2282)

Module 1: Introduction to Designing an Active Directory and Network Infrastructure

- Explain basic design principles.
- Describe the process of and the tasks involved in designing an Active Directory infrastructure.

Module 2: Designing a Forest and Domain Infrastructure

- Gather and analyze the information that you need to design a forest and domain infrastructure.
- Create a logical forest design.
- Create a domain design.
- Design a DNS namespace strategy for forests and domains.
- Create a trust strategy for forests.
- Determine a migration plan for the existing infrastructure.
- Design a schema management policy.

Module 3: Designing a Site Infrastructure

- Determine the information needed to design a site infrastructure.
- Create a site design.
- Modify the site design for replication.
- Determine the placement of domain controllers in the site design.
- Determine the placement of global catalog servers in the site design.
- Determine the placement of single operations masters in the site design.

Module 4: Designing the Administrative Structure

- Determine the information needed to design an administrative structure.
- Design a network administration model.

- Design an organizational unit structure.
- Design an account strategy.

Module 5: Designing for Group Policy

- Determine the information needed to design for Group Policy.
- Design a Group Policy structure.
- Create an organization unit (OU) structure for Group Policy.
- Create a Group Policy management design.

Module 6: Designing the Physical Network

- Explain the preparation necessary to design a network infrastructure.
- Create an IP addressing scheme.
- Design a DHCP infrastructure.
- Design a change management structure for networking.

Module 7: Designing for Network Connectivity

- Determine the information that you need to design for network connectivity.
- Evaluate connection types.
- Design a connectivity infrastructure.
- Create a design for Internet connectivity.

Module 8: Designing a Name Resolution Strategy

- Determine the information needed to design a name-resolution strategy.
- Design a strategy for interoperability with Active Directory, BIND, WINS, and DHCP.
- Design a WINS replication strategy.
- Design a name resolution strategy for clients.

Module 9: Designing the Network Access Infrastructure

- Gather data for network access design.
- Design network access security.
- Choose remote access methods.
- Design a remote access infrastructure.
- Design a wireless access infrastructure.

2400) Implementing and Managing Microsoft Exchange Server 2003 (Exam 70-284) (Microsoft Official Curriculum)

Course Contents:

Module 1: Installing and Upgrading to Exchange Server 2003

- Installing Exchange Server 2003
- Installing Exchange Server 2003 in a Clustered Environment
- Installing and Using Exchange Management Tools and Utilities
- Upgrading from Exchange 2000 Server to Exchange Server 2003
- Discussion: Installing and Upgrading to Exchange Server 2003

Module 2: Configuring and Managing Exchange Server 2003

- Creating and Applying Exchange Policies
- Configuring Exchange Server 2003 for Proactive Management
- Adding, Removing, and Updating Exchange Servers
- Managing Exchange Server 2003 in a Mixed Environment
- Discussion: Configuring and Managing Exchange Server 2003

Module 3: Securing Exchange Server 2003

- Preparing for and Protecting Against Viruses
- Securing Mailboxes
- Implementing Digital Signature and Encryption Capabilities
- Configuring Firewalls
- Configuring Administrative Permissions
- Allowing Only Required Services to Run on Exchange Server 2003
- Discussion: Securing Exchange Server 2003

Module 4: Managing Recipients

- Introduction to Exchange Recipients
- Creating, Deleting, and Modifying Users and Contacts
- Managing Mailboxes
- Managing Mail-Enabled Groups
- Discussion: Managing Recipients

Module 5: Managing Public Folders

- Managing Public Folder Data
- Managing Network Access to Public Folders
- Publishing An Outlook 11 Form
- Discussion: Managing Public Folders

Module 6: Managing Address Lists

- Introduction to Address Lists
- Managing and Customizing Address Lists
- Discussion: Managing Address Lists

Module 7: Implementing and Managing Client Access with Internet Protocols

- Introduction to Internet Client Access Protocols
- Implementing a Front-End and Back-End Server Topology
- Implementing and Managing Outlook Web Access
- Discussion: Implementing and Managing Client Access with Internet Protocols

Module 8: Managing Client Configuration and Connectivity

- Configuring and Customizing Outlook 2003
- Performing Calendaring Tasks in Outlook 2003
- Installing and Configuring Outlook Express
- Discussion: Managing Client Configuration and Connectivity

Module 9: Managing Routing

- Explaining How Message Routing Works in an Exchange Organization
- Configuring Routing in an Exchange Organization
- Explaining Internet Connectivity Concepts and Protocols
- Managing Connectivity to the Internet
- Discussion: Managing Routing

Module 10: Managing Mobile Devices with Exchange Server 2003

- Managing Mobility Components
- Provisioning Users for Mobile Access
- Discussion: Managing Mobile Devices with Exchange Server 2003

Module 11: Managing Data Storage and Hardware Resources

- Managing Data Storage
- Managing Disk Space
- Managing Hardware Upgrades
- Discussion: Managing Data Storage and Hardware Resources

Module 12: Planning for and Recovering from Disasters

- Planning for Disaster Recovery
- Backing Up Exchange Server 2003
- Restoring Exchange Server 2003 Stores
- Restoring Exchange Server 2003 Servers
- Discussion: Planning for and Recovering from Disasters

Module 13: Performing Preventive Maintenance

- Performing Daily Exchange Maintenance
- Performing Scheduled Exchange Maintenance
- Performing On-Demand Exchange Maintenance
- Discussion: Performing Preventive Maintenance

Module 14: Migrating Users from Exchange Server 5.5 to Exchange Server 2003

- Populating Active Directory with Windows NT 4.0 User and Group Accounts
- Connecting the Exchange 5.5 Directory to Active Directory
- Moving Mailbox and Public Folder Contents into an Exchange Server 2003 Organization
- Discussion: Migrating Users from Exchange Server 5.5 to Exchange Server 2003