

## **MICROSOFT CERTIFIED SYSTEMS ENGINEER Windows 2003 Track**

In recent years Microsoft's MCSE programs has established itself as the premier computer and networking industry certification. For the Windows 2003 implementation and administration, corporate has made it their mission to demand more of Microsoft certified candidates. The depth of technical knowledge required to obtain Microsoft's new Windows 2000 MCSE is staggering

**Audience:** Those who are interested to become System/Network Administrator

**Prerequisite:** Knowledge of Computer Hardware.

**Duration of the course:** 3 Months (2 HRS/DAY)

**Course Fee:** \$ 1,150 (Inclusive of Course Manuals)

### **Key Benefits:**

At the end of the course students will have the skills to support Microsoft Windows 2003 Network environment. MCSE Professionals are responsible for installing, configuring, managing and supporting a network infrastructure that uses the Microsoft Windows 2003 sever, Microsoft Exchange Server, SQL Server etc.

### **MCSE on Microsoft Windows Server 2003 Certification Requirements**

Microsoft Certified Systems Engineer (MCSE) candidates on the Microsoft Windows Server 2003 track are required to satisfy the following requirements:

#### **Core Exams: Networking Systems (4 Exam required)**

#### **Exam 70-290: Managing & Maintaining a Microsoft Windows Server 2003**

- Managing Users, Computers and Groups
- Manage local, roaming and mandatory user profiles
- Managing and Maintaining Access to Resources
- Configure access to shared folders

- Managing and Maintaining a Server Environment
- Manage software update infrastructure
- Monitor file and print servers
- Manage a Web server using IIS
- Managing and Maintaining Physical and Logical Devices
- Manage basic disks and dynamic disks
- Install and configure server hardware devices
- Managing and Implementing Disaster Recovery
- Manage backup procedures and recover from the backup
- Recover from server hardware failure

**Exam 70-291: Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.**

- Implementing, Managing and Maintaining IP Addressing
- Configure TCP/IP addressing on a server computer using DHCP
- Implementing, Managing and Maintaining Name Resolution using DNS Server
- Implementing, Managing and Maintaining Routing and Remote Access
- Configure remote access authentication protocols
- Implement secure access between private networks
- Implementing, Managing and Maintaining Network Security
- Implement secure network administration procedures
- Manage, Routing and Remote Access routing interface
- Maintaining a Network Infrastructure

**Exam 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure**

- Planning and Implementing Server Roles and Server Security
- Planning, Implementing and Maintaining a Network Infrastructure
- Planning, Implementing and Maintaining Routing and Remote Access
- Planning, Implementing and Maintaining Server Availability
- Planning and Maintain Network Security
- Planning, Implementing and Maintaining Security Infrastructure

**Exam 70-294: Planning, Implementing and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure.**

- Planning and Implementing an Active Directory Infrastructure
- Evaluate network traffic considerations when placing global catalog servers.
- Evaluate the need to enable universal group caching.
- Managing and Maintaining an Active Directory Infrastructure
- Planning and Implementing User, Computer and Group Strategies
- Plan a user authentication strategy
- Plan a smart card authentication strategy
- Plan an OU Structure
- Planning and Implementing Group Policy
- Managing and Maintaining Group Policy
- Troubleshoot the application of Group Policy security settings

**CORE EXAMS: CLIENT OPERATING SYSTEM (1 EXAM REQUIRED)**

**Exam 70-270: Installing, Configuring and Administering Microsoft Windows XP Professional.**

- Installing Windows XP Professional
- Implementing and Conducting Administration of Resources
- Manage and troubleshoot access to shared folders
- Connect to local and network print devices
- Implementing, Managing and Troubleshooting Hardware Devices and Drivers
- Monitoring and Optimizing System Performance and Reliability
- Configuring and Troubleshooting the Desktop Environment
- Implementing, Managing and Troubleshooting Network Protocols and Services
- Configuring, Managing and Troubleshooting Security
- Configure, manage and troubleshoot Internet Explorer security settings.

**Exam 70-210: Installing, Configuring and Administering Microsoft Windows 2000 Professional.**

- Installing Windows 2000 Professional
- Implementing and Conducting Administration of Resources
- Implementing, Managing and Troubleshooting Hardware Devices and Drivers

- Monitoring and Optimizing System Performance and Reliability
  - Configuring and Troubleshooting the Desktop Environment
  - Implementing, Managing and Troubleshooting Network Protocols and Services
  - Implementing, Monitoring and Troubleshooting Security
- CORE EXAMS: DESIGN (1 Exam Required )

**Exam 70-297: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.**

- Creating the Conceptual Design by Gathering and Analyzing Business and Technical Requirements
- Creating the logical Design for an Active Directory Infrastructure
- Creating the Logical Design for a Network Services Infrastructure
- Creating the Physical Design for an Active Directory and Network Infrastructure
- Design a DNS service implementation
- Design a NetBIOS name resolution strategy.
- Design a network and routing topology for a company.
- Design Internet connectivity for a company
- Design the remote access infrastructure.

**Exam 70-298: Designing Security for a Microsoft Windows Server 2003 Network**

- Creating the Conceptual Design for Network Infrastructure Security by Gathering and Analyzing Business and Technical Requirements.
- Creating the Logical Design for Network Infrastructure Security
- Creating the Physical Design for Network Infrastructure Security
- Design a public key infrastructure (PKI) that uses Certificate Services
- Design security for network management
- Design security for wireless networks
- Design user authentication for Internet Information Services (IIS)
- Design security for communication between networks
- Designing an Access Control Strategy for Data
- Creating the Physical Design for Client Infrastructure Security.

## **ELECTIVE EXAMS (1 Exam Required)**

### **Exam 70-227: Installing, Configuring and Administering Microsoft Internet Security and Acceleration (ISA) Server 2000. Enterprise Edition.**

- Installing ISA Server
- Install ISA Server, Installation modes include integrated, firewall and cache
- Configuring and Troubleshooting ISA Server Services
- Configure and troubleshoot outbound Internet access
- Configure H.323 Gatekeeper for audio and video conferencing
- Configure and troubleshoot virtual private network (VPN) access
- Configuring, Managing and Troubleshooting Policies and Rules
- Create and configure access control and bandwidth policies
- Manage ISA Server arrays in an enterprise
- Deploying, Configuring and Troubleshooting in the Client Computer
- Monitoring, Managing and Analyzing ISA Server Use
- Troubleshoot problems with security and network usage

### **Exam 70-228: Installing, Configuring and Administering Microsoft SQL Server 2000 Enterprise Edition**

- Installing and Configuring SQL Server 2000
- Upgrade to SQL Server 2000
- Create a linked server
- Configure network libraries
- Troubleshoot failed installations
- Creating SQL Server 2000 Database
- Attach and detach databases
- Create and alter databases
- Perform disaster recovery operations
- Managing, Monitoring and Troubleshooting SQL Server 2000 Databases
- Extracting and Transforming Data with SQL Server 2000
- Managing and Monitoring SQL Server 2000 Security
- Managing, Monitoring and Troubleshooting SQL server 2000
- Create, manage and troubleshoot SQL Server Agent jobs
- Monitor SQL Server system activity by using traces
- Monitor SQL Server system activity by using System Monitor

## **Exam 70-284: Implementing and Managing Microsoft Exchange Server 2003**

- Installing, Configuring and troubleshooting Exchange Server 2003
- Prepare the environment for deployment of Exchange Server 2003
- Install, configure and troubleshoot Exchange Server 2003
- Upgrade from Exchange Server 5.5 to Exchange Server 2003
- Migrate from other messaging systems to Exchange Server 2003
- Configure Exchange 2003 for interoperability with other SMTP messaging systems
- Managing, Monitoring and Troubleshooting Exchange Server Computers
- Perform and troubleshoot backups and recovery
- Manage, monitor and troubleshoot data storage
- Managing, Monitoring and Troubleshooting the Exchange Organization
- Manage and troubleshoot public folders
- Manage and troubleshoot virtual servers
- Manage and troubleshoot front-end and back-end servers
- Managing Security in the Exchange Environment
- Managing Recipient Objects and Address Lists
- Managing and Monitoring Technologies that Support Exchange Server 2003