



## **Microsoft Certified Systems Administrator - MCSA**

**Duration:** 40 Sessions

### **Introduction**

This instructor-led course provides participants with the knowledge and skills that are needed to manage Microsoft® Windows® Networks in Microsoft Windows Server™ 2003 environment.

### **Audience**

This course is intended for individuals who are:

- Information Technology (IT) professionals who need to implement and support Windows Server 2003 network.

### **At Course Completion**

After completing this course, participants will be able to:

- Plan and implement Windows XP Professional, including automated and remote installations
- Install and support hardware devices and drivers on computers running Windows XP Professional.
- Configure and support computers running Windows XP Professional for mobile computing.
- Create and populate organizational units with user and computer accounts.
- Manage user and computer accounts.
- Create and manage groups.
- Configure TCP/IP
- Design and implement subnetted network
- Describe SQL Server architecture and the elements of SQL Server 2000.
- Design a SQL Server enterprise application architecture
- Describe the conceptual basis of programming in Transact-SQL
- Create and manage databases and their related components

### **Overall Course Objective**

- This course provides students with the knowledge and skills that are required to Install, Administer, and Configure Microsoft Windows Server 2003 networks and will satisfy the requisite information that is needed to help students prepare for 4 MCSA exams.



## **Microsoft Certified Professional exam:**

This course will help the student prepare for the following Certified Professional exam:

- Exam 70-270: Installing, Configuring, and Administering Microsoft Windows XP Professional
- Exam 70-290: Managing and Maintaining a Microsoft Windows Server 2003 Environment
- Exam 70-291: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.
- 70-228: System Administration for Microsoft SQL Server 2000

## **Prerequisites**

Before attending this course, students must have:

- CompTIA A+ certification or equivalent knowledge
- CompTIA Network+ certification or equivalent knowledge.
- General knowledge of computer hardware components, including memory, hard disks, and central processing units.
- General knowledge of networking concepts, including network operating systems, client-server relationship, and local area networks (LAN).

## **Course Materials**

- MCSE Training Kit (Exam 70-270) : Windows XP Professional
- MCSA/MCSE Self-Paced Training Kit (Exam 70-290), Managing and Maintaining a Microsoft Windows Server 2003 Environment.
- MCSA/MCSE Self-Paced Training Kit (Exam 70-291): Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.
- MCSE Self-Paced Training Kit (Exam 70-293): Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.
- MCSE Training Kit (Exam 70-228): Microsoft SQL Server 2000 System Administration.
- MCSE Training Kit (Exam 70-229): Microsoft SQL Server 2000 Database Design and Implementation.

## **Course Outline**

### **Installing, Configuring and Administering Microsoft Windows XP Professional Certified Windows Engineer 2003 (CWE03)**

- Lesson 1: Installing and Deploying Windows XP Professional
- Lesson 2: Installing, Managing and Troubleshooting Hardware Devices and Drivers
- Lesson 3: Configuring Windows XP Professional
- Lesson 4: Setting up and Managing User Accounts



- Lesson 5: Configuring Security Settings, Internet Options and Application Compatibility
- Lesson 6: Configuring Windows XP Professional for Mobile Computing
- Lesson 7: Modifying and Troubleshooting the Boot Process

### **Installing, Configuring and Administering a Microsoft Windows Server 2003**

- Lesson 1: Introducing Microsoft Windows Server 2003
- Lesson 2: Administering Microsoft Windows Server 2003
- Lesson 3: User Accounts
- Lesson 4: Group Accounts
- Lesson 5: Computer Accounts
- Lesson 6: Files and Folders
- Lesson 7: Backing Up Data
- Lesson 8: Printers
- Lesson 9: Maintaining the Operating System
- Lesson 10: Managing Hardware Devices and Drivers (Optional Covered in CWE03-XP)
- Lesson 11: Managing Microsoft Windows Server 2003 Disk Storage
- Lesson 12: Monitoring Microsoft Windows Server 2003
- Lesson 13: Recovering from System Failure

### **Planning, Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure**

- Lesson 1: Understanding TCP/IP
- Lesson 2: Monitoring and troubleshooting TCP/IP Connection
- Lesson 3: Configuring DNS Servers and clients
- Lesson 4: Implementing a DNS Infrastructure
- Lesson 5: Configuring DHCP Servers and Clients
- Lesson 6: Monitoring and Troubleshooting DHCP
- Lesson 7: Routing with Windows Server 2003
- Lesson 8: Configuring and Managing Remote Access
- Lesson 9: Configuring Digital Certificate Server
- Lesson 10: Securing Network Traffic by Using IPSec
- Lesson 11: Configuring Wins Servers and Clients

### **Designing, Implementing and Managing Microsoft SQL Server 2000**

- Lesson 1: SQL Server Overview
- Lesson 2: Implementing SQL Server Databases and Tables
- Lesson 3: Managing and Manipulating Data
- Lesson 4: Accessing and Modifying Data
- Lesson 5: Implementing Data Integrity
- Lesson 6: Implementing Stored Procedures
- Lesson 7: Implementing Views
- Lesson 8: Managing Security
- Lesson 9: Implementing Triggers
- Lesson 10: Backing Up and Restoring SQL Server
- Lesson 11: Using SQL Server Replication