



BUILDING TRAINING SOLUTIONS
FOR THE IT WORLD

Intensive: Windows Server 2003: Network Infrastructure

Days:	5
Format:	Instructor-Led
Class Code	5702
Certification Exams:	70-291
Certification Track:	MCSA MCSE MCDBA

Recommended Course Sequence

Knowledge of prerequisites
noted below.

*Course content is subject to change
without notice.*

Course Description:

This five-day instructor-led course provides students with the knowledge and skills to implement, manage, plan and maintain a Windows Server 2003 network infrastructure.

Target Student:

This course is intended for individuals who are employed as or seeking employment as a systems administrator or systems engineer, and is also appropriate for individuals currently supporting a competitive platform who want to enhance their job skills on Microsoft Windows Server 2003 networking.

Prerequisites:

Before attending this course, the student must have

- Course 2276: Implementing a Microsoft Windows Server 2003 Network Infrastructure
- or
- Have equivalent knowledge and skills.

At Course Completion:

After completing this course, students will be able to:

- Install and configure routing by using the Routing and Remote Access service.
- Install and configure the DHCP Server service.
- Manage and monitor DHCP.
- Install and configure the DNS Server service.
- Manage and monitor DNS.
- Secure IP traffic by using IPSec and certificates.
- Implement a network access infrastructure by configuring the connections for virtual, dial-up and wireless clients.
- Plan a TCP/IP physical and logical network.
- Plan a Dynamic Host Configuration Protocol (DHCP) strategy.
- Plan a Domain Name System (DNS) strategy.
- Plan, optimize, and troubleshoot IPSec network access.
- Troubleshoot network access.

Intensive: Windows Server 2003: Network Infrastructure

Course Outline

Module 1: Planning and Optimizing a TCP/IP Physical and Logical Network
<ul style="list-style-type: none">■ Plan a TCP/IP addressing scheme.■ Evaluate and optimize network performance.
Module 2: Configuring Routing by Using Routing and Remote Access
<ul style="list-style-type: none">■ Describe the role of routing in the network infrastructure.■ Enable and configure the Routing and Remote Access service.■ Configure packet filter.
Module 3: Planning, Optimizing, and Troubleshooting DHCP
<ul style="list-style-type: none">■ Plan a secure DHCP strategy.■ Optimize DHCP.■ Troubleshoot DHCP.
Module 4: Allocating IP Addressing by Using Dynamic Host Configuration Protocol (DHCP)
<ul style="list-style-type: none">■ Describe the role of DHCP in the network■ Add and authorize a DHCP Server services.■ Configure a DHCP scope.■ Configure DHCP options.■ Configure a DHCP reservation.■ Configure a DHCP relay agent.
Module 5: Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)
<ul style="list-style-type: none">■ Manage a DHCP database.■ Monitor DHCP.■ Apply security guidelines for DHCP.
Module 6: Planning a DNS Strategy
<ul style="list-style-type: none">■ Optimize a DNS server.■ Optimize DNS server-to-server communications.■ Optimize DNS client support traffic.■ Troubleshoot host name resolution.
Module 7: Resolving Host Names by Using Domain Name System (DNS)
<ul style="list-style-type: none">■ Describe the role of DNS in the network infrastructure.■ Install the DNS Server service.■ Configure the properties for the DNS Server service.■ Configure the DNS zones.■ Configure DNS zone transfers.■ Configure dynamic updates.■ Configure a DNS client.■ Delegate authority for zones.

Intensive: Windows Server 2003: Network Infrastructure

Module 8: Managing and Monitoring Domain Name System (DNS)
<ul style="list-style-type: none">■ Configure the Time-to-Live (TTL) value.■ Configure aging and scavenging.■ Integrate DNS with WINS.■ Test the DNS server configuration.■ Verify that a resource record exists by using the Nslookup, DNSCmd, and DNSLint command-line utilities.■ Monitor DNS server performance.
Module 9: Planning and Troubleshooting IPsec
<ul style="list-style-type: none">■ Implement IPsec.■ Implement IPsec with certificates.■ Monitor IPsec.
Module 10: Troubleshooting Network Access
<ul style="list-style-type: none">■ Identify network access troubleshooting resources.■ Explain how to troubleshoot local area network (LAN) authentication.■ Explain how to troubleshoot remote access.
Module 11: Planning Network Access
<ul style="list-style-type: none">■ Explain the requirements and authentication protocols for a network access strategy.■ Apply the guidelines for selecting a network access connection strategy.■ Apply the guidelines for selecting a remote access policy strategy.■ Select a network access authentication method.■ Plan a network access strategy.
Module 12: Configuring Network Access
<ul style="list-style-type: none">■ Describe a network access infrastructure.■ Configure a virtual private network (VPN) connection.■ Configure a dial-up connection.■ Configure a wireless connection.■ Control remote user access to a network.■ Centralize authentication and policy management for network access by using Internet Authentication Service (IAS).