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The Art of Knowledge.

Implement, Manage, and Maintain a Microsoft Windows Server 2003 (MS2277)

Course Length
5 Days
TE3903_20070117

Course Description: This five-day, instructor-led course provides students with the knowledge and skills to implement, manage, and maintain a Microsoft Windows Server 2003 network infrastructure. The course is intended for systems administrator and systems engineer candidates who are responsible for implementing, managing, and maintaining server networking technologies. These tasks include implementing routing; implementing, managing, and maintaining Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Windows Internet Name Service (WINS); securing Internet Protocol (IP) traffic with Internet Protocol security (IPSec) and certificates; implementing a network access infrastructure by configuring the connections for remote access clients; and managing and monitoring network access. This is the fourth course in the Systems Administrator and Systems Engineer track for Windows Server 2003, and it is the final course in the Systems Administrator track.

Who Should Attend: 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 completed Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts, or have equivalent knowledge and skills.

Benefits of Attendance: Upon completion of this course, students will be able to:

- Allocate IP addressing by using DHCP
- Manage and monitor DHCP
- Resolve names
- Resolve host names by using DNS
- Manage the integration of Active Directory and DNS
- Manage and monitor DNS
- Resolve network basic input/output system (NetBIOS) names by using WINS
- Secure network traffic by using IPSec and certificates
- Configure routing by using the Routing and Remote Access service
- Configure network access

Course Outline:

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 DHCP Reservations and Options
Configuring a DHCP Relay Agent
Lab A: Identifying and Resolving Common Issues When Allocating IP Addressing by Using DHCP
Identifying and Resolving Common Issues When Allocating IP Addressing by Using DHCP

Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)
Managing a DHCP Database
Monitoring DHCP
Applying Security Guidelines for DHCP
Lab A: Managing and Monitoring DHCP
Managing and Monitoring DHCP

Resolving Names
Multimedia: Introduction to the Name Resolution Process
Viewing Names on a Client
Configuring Host Name Resolution
Configuring NetBIOS Name Resolution
Lab A: Resolving Names
Troubleshooting Name Resolution

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 DNS Server Service
Configuring the DNS Zones
Configuring DNS Zone Transfers
Configuring a DNS Client
Lab A: Resolving Host Names by Using Domain Name System
Implementing a DNS Infrastructure

Integrating Domain Name System and Active Directory
Configuring Active Directory Integrated Zones
Configuring DNS Dynamic Updates
Understanding How Active Directory Uses DNS
Lab A: Integrating DNS and Active Directory
Configuring Active Directory Integrated DNS Zones

Managing and Monitoring Domain Name System (DNS)
Managing DNS Records
Testing the DNS Server Configuration
Monitoring DNS Server Performance
Lab A: Managing and Monitoring DNS
Managing and Monitoring DNS

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

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
Lab A: Configuring Routing by Using Routing and Remote Access
Configure Routing and Remote Access
Plan a Routing Topology

Securing Network Traffic by Using IPSec and Certificates
Implementing IPSec
Understanding IPSec Deployment Scenarios
Monitoring IPSec

Configuring Network Access
Introduction to a Network Access Infrastructure
Configuring VPN Access
Configuring Dial-up Access
Configuring Wireless Access
Controlling User Access to a Network
Centralizing Network Access Authentication by Using IAS
Protecting Remote Access by Using Network Access Quarantine

Managing and Monitoring Network Access
Managing the Network Access Services
Configuring Logging on a Network Access Server
Collecting and Monitoring Network Access Data
Lab A: Managing and Monitoring Remote Access
Monitoring a Remote Access Server