



Preliminary Course Syllabus

Upgrading Your Skills from Microsoft Windows NT 4.0 to Microsoft Windows Server 2003

Elements of this syllabus are subject to change.

This three-day, instructor-led course provides students with the knowledge and new skills needed to implement and manage a Microsoft® Windows Server™ 2003 networked environment.

Key Data

Course #: 2208
Number of Days: 3
Format: Course
Certification Exams: 70-290, and 70-291

This course helps you prepare for the following Microsoft Certified Professional exams:

- 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*

Certification Track: MCSA

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.

Content, prices, and availability are subject to change without notice.

Audience

This course is intended for systems engineers with experience planning, implementing, and supporting a Microsoft Windows NT® 4.0-based network. The course specifically targets students who have practical, hands-on experience using Windows NT 4.0 and who need to quickly learn how to apply those skills in a Windows Server 2003 environment.

At Course Completion

After completing this course, students will be able to:

- Explain the features of the Windows Server 2003 family.
- Implement a Domain Name System (DNS) server.
- Manage and monitor Domain Name System.
- Install the Windows Server 2003 Active Directory® directory service.
- Create and manage Active Directory objects.
- Implement Group Policy to centrally manage a Windows Server 2003 family network.
- Configure and manage a user environment by using Group Policy.
- Configure and support network access.
- Secure network traffic and data files.
- Use advanced boot options, the Recovery Console, and the Backup utility.
- Restore data by using the Backup utility in Windows Server 2003.
- Plan and implement secure Routing and Remote Access.

Prerequisites

Before attending this course, students must have met at least one of the following prerequisites:

- Certified as a Microsoft Certified Systems Engineer (MCSE) on Windows NT 4.0
- Attended Course 689, *Supporting Microsoft Windows NT 4.0 - Enterprise Technologies*
- Possess equivalent knowledge and skills.

Student Materials

The student kit includes a workbook and other necessary materials for this class.

The following software is provided in the student kit:

- Evaluation copy of Windows Server 2003, Enterprise Edition (for educational use only)

For a referral to a Microsoft Certified Technical Education Center in your area, see the Microsoft Training and Certification Web site at <http://www.microsoft.com/traincert>. Call your local Microsoft Certified Technical Education Center for more information and to register for classes.

Module 1: Introduction to the Windows Server 2003 Family

This module contains information that a systems administrator with Microsoft Windows NT 4.0 experience will benefit from knowing when starting to work on Windows Server 2003.

Module Objectives

After completing this module, students will be able to:

- Locate specific topics in the Help and Support System.
- Activate Windows Server 2003.
- List hardware requirements for Windows Server 2003.
- Install and configure Administrative Tools.

Module 2: Implementing the Domain Name System

This module contains an overview animation of the role of DNS in the network infrastructure and covers the essential concepts a systems administrator needs to know about a DNS server.

Module Objectives

After completing this module, students will be able to:

- Describe the role of DNS in the network infrastructure.
- Install the DNS Server service.
- Configure the properties for the DNS Server service.
- Configure a DNS zone.
- Configure DNS zone transfers.
- Configure dynamic updates.
- Configure a DNS client.
- Delegate authority for zones.
- Describe how DNS dynamic updates work.
- Explain what resource records and record types are.
- Explain what dynamic updates are.
- Describe how DNS clients register and update their own resource records by using dynamic update.
- Describe how a Dynamic Host Configuration Protocol (DHCP) server registers and updates resource records by using dynamic update.
- Configure DNS manual and dynamic updates.
- Explain what an Active Directory-integrated DNS zone is.
- Configure Active Directory-integrated DNS zones to use secure dynamic updates.

Module 3: Managing and Monitoring the Domain Name System

This module builds on, and continues, content covering DNS.

Module Objectives

After completing this module, students will be able to:

- Manage DNS on a system running Windows Server 2003 and monitor DNS server performance on that system.
- Describe and configure the Time-to-Live value.
- Describe how aging and scavenging work.
- Configure aging and scavenging.
- Explain the purpose of verifying that a resource record exists.
- Explain what Nslookup is.
- Explain what DNSCmd is.
- Explain what DNSLint is.
- Verify that a resource record exists by using Nslookup, DNSCmd, and DNSLint.
- Describe how simple and recursive queries work.
- Test the DNS server configuration.
- Apply guidelines for monitoring DNS server performance by using the Performance console.
- Explain DNS event logging.
- Monitor DNS server performance by using logging.

Module 4: Installing Windows Server 2003 Active Directory

This module gives students the opportunity to install Active Directory, and learn about the new functional levels of Active Directory in Windows Server 2003.

Module Objectives

After completing this module, students will be able to:

- Explain the basic concepts of Active Directory.
- Install Active Directory.
- Change the domain functional level.

Module 5: Creating and Managing Active Directory Objects

This module contains the information that a systems administrator must know to manage Active Directory objects.

Module Objectives

After completing this module, students will be able to:

- Create organizational units, user accounts, and computer accounts.
- Create and modify groups.
- Apply the appropriate strategies when using groups.
- Use permissions to control access to Active Directory objects.
- Delegate control of Active Directory objects to support secure and decentralized administration.
- Move Active Directory objects.

Module 6: Implementing Group Policy to Centrally Manage a Windows Server 2003 Family Network

This module covers planning and implementing multiple forests in Active Directory by adding a new organization to an existing company. Students will implement cross-

forest trust, manage user authentication, identify possible security concerns, and come to understand how to resolve naming conflicts between two forests.

Module Objectives

After completing this module, students will be able to:

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| <ul style="list-style-type: none">▪ Implement Group Policy objects on a domain.▪ Modify Group Policy inheritance. |
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Module 7: Configuring and Managing User Environment by Using Group Policy

This module contains content that a Windows Server 2003 systems administrator must have to manage user environments by using Group Policy.

Module Objectives

After completing this module, students will be able to:

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| <ul style="list-style-type: none">▪ Configure Group Policy settings.▪ Use administrative templates in Group Policy to control a user environment.▪ Use security templates to secure computers.▪ Assign scripts to control user environments by using Group Policy.▪ Determine applied Group Policy objects (GPOs). |
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Self-Study Module: Configuring and Supporting Network Access

This module covers how to support network access for remote users. This module focuses primarily on the Windows Server 2003 network access technologies and their related tasks.

Module Objectives

After completing this module, students will be able to:

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| <ul style="list-style-type: none">▪ Describe a network access infrastructure.▪ 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). |
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Self-Study Module: Securing Network Traffic and Data Files

This module covers how to secure network traffic, which includes Internet Protocol security (IPSec); and how to secure data files, which include Encrypting File System (EFS).

Module Objectives

After completing this module, students will be able to:

- Implement IPsec.
- Implement IPsec with certificates.
- Monitor IPsec
- Explain how to use EFS.
- Add authorized users.
- Decrypt a file or folder.
- Recover an encrypted file or folder.

Self-Study Module: Implementing Basic Disaster Protection and Recovery Techniques in the Windows Server 2003 Family

This module covers some of the ways to implement disaster protection and recovery techniques in Windows Server 2003. This module focuses on using the Recovery Console and the Backup utility.

Module Objectives

After completing this module, students will be able to:

- Use Safe Mode.
- Use advanced boot options.
- Use the Recovery Console.
- Describe the Recovery Console.
- Restore files and folders by using the Backup utility.
- Restore Active Directory.
- Describe Automated System Recovery (ASR).
- Recover from a system failure by using ASR.
- Restore system data.