

## Course Specifications

Planning,  
Implementing,  
Managing and  
Maintaining a Microsoft  
Windows Server 2003  
Environment for an  
MCSE on Windows  
2000

**Course number:** 2297

**Course length:** 5 days

## Registration:

**CAD & Facilities Services, Inc.**

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# Planning, Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE on Windows 2000

## Introduction

This five-day, instructor-led course provides students with the knowledge and new skills that they need to plan, implement, manage, and maintain a Microsoft Windows Server 2003 networked environment.

This course focuses on the changes from Microsoft Windows 2000 to Windows Server 2003, and is intended for systems engineers who want to upgrade their skills from Windows 2000 to Windows Server 2003.

## Audience

This course is intended for Microsoft Certified Systems Engineers (MCSEs) certified on Windows 2000 who have experience planning, implementing, and supporting a Windows 2000-based Microsoft Active Directory directory service network, and who need to learn how to leverage those skills in a Windows Server 2003 environment.

## At Course Completion

After completing this course, students will be able to:

- Identify the systems administration and systems engineer tasks in Windows Server 2003 that are new or different from the tasks performed in Windows 2000.
- Manage user, group, and computer accounts in a Windows Server 2003 Active Directory-based environment.
- Manage access to shared resources.
- Manage and maintain the server environment in a Windows Server 2003 environment.
- Manage the application server environment in a Windows Server 2003 environment.
- Manage disaster recovery in a Windows Server 2003 environment.

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- Use Software Update Services to maintain software in a Windows Server 2003 environment.
- Plan, implement, optimize, and troubleshoot name resolution in a Windows Server 2003 environment.
- Plan a public key infrastructure (PKI) and an Internet Protocol Security (IPSec) deployment in a Windows Server 2003 environment.
- Plan and troubleshoot local and remote network access in a Windows Server 2003 environment.
- Implement Active Directory in a Windows Server 2003 environment.
- Plan the placement of domain controllers, global catalog servers, and operations masters in a Windows Server 2003 environment.
- Plan, implement, manage, and troubleshoot Group Policy in a Windows Server 2003 environment.

### Prerequisites

Before attending this course, students must have:

- An MCSE on Windows 2000 certification, or equivalent knowledge and skills.

### Microsoft Certified Professional Exams

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

- [Exam 70-292](#): Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Microsoft Windows 2000
- [Exam 70-296](#): Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE Certified on Microsoft Windows 2000

### Course Materials

The student kit includes a workbook and other necessary materials for this class, such as this software:

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

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## Course Outline

### Module 1: Managing Users, Groups, and Computers

This module describes the changes in managing user, group, and computer accounts in a networked environment from Windows 2000 to Windows Server 2003.

#### Lessons

- The Windows Server 2003 Environment
- Installing the Administrative Tools
- Creating and Managing User Accounts
- Creating and Managing Group Accounts
- Creating and Managing Computer Accounts

#### Lab A: Managing User and Computer Accounts

#### Lab B: Creating and Managing Groups

After completing this module, students will be able to:

- Understand the differences between the Windows Server 2003 editions.
- Describe and install the Windows Server 2003 administrative tools.
- Create and manage user, group, and computer accounts in a Windows Server 2003 Active Directory–based environment.

### Module 2: Managing Access to Resources

This module describes changes in managing access to resources in a Windows Server 2003 environment. It describes changes in how to manage shared folder permissions and changes in NTFS (NT file system) permissions. It also explains how to secure a server by using Microsoft Baseline Security Analyzer.

#### Lessons

- Managing Shared Folder Permissions
- Managing NTFS Permissions
- Securing the Server

#### Lab A: Managing Access to Resources

After completing this module, students will be able to:

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- Manage shared folder permissions.
- Discuss changes to NTFS permissions.
- Determine effective permissions.
- Secure the server.

### Module 3: Managing and Maintaining a Server Environment

This module describes the server management and maintenance features that are changed from Windows 2000 or that are new to Windows Server 2003.

#### Lessons

- Configuring Remote Desktop to Administer a Server
- Managing Remote Desktop Connections
- Using Device Driver Rollback
- Preparing Disks Using the DiskPart Tool
- Managing Disk Properties

#### Lab A: Preparing to Administer a Server

#### Lab B: Managing Disks

After completing this module, students will be able to:

- Configure Remote Desktop to administer a server.
- Manage Remote Desktop connections.
- Use device driver rollback.
- Prepare disks using the DiskPart tool.
- Manage disk properties.

### Module 4: Managing an Application Server Environment

This module describes the methods used to install and configure Windows application servers in Windows Server 2003. Two common application servers used in a Windows Server 2003 environment are Internet Information Services (IIS) 6.0 and Terminal Services. This module describes how to install, configure, and manage IIS 6.0. It also describes how to configure Terminal Services by using Group Policy. Finally, it describes how to plan for high availability and scalability of network applications and services.

#### Lessons

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- Installing and Configuring Internet Information Services 6.0
- Configuring Terminal Services with Group Policy
- Planning for High Availability and Scalability

### Lab A: Managing an Application Server Environment

After completing this module, students will be able to:

- Install and configure IIS 6.0.
- Configure Terminal Services by using Group Policy.
- Plan for high availability and scalability.

### Module 5: Managing Disaster Recovery

This module describes how to use Automated System Recovery (ASR) to back up system data and also to recover from a server failure. The module also explains how to configure and use shadow copies.

#### Lessons

- Using Automated System Recovery
- Using Shadow Copies

### Lab A: Managing Disaster Recovery

After completing this module, students will be able to:

- Use Automated System Recovery (ASR) to back up and restore system data.
- Use shadow copies.

### Module 6: Maintaining Software by Using Software Update Services

This module describes Microsoft Software Update Services, a tool for managing and distributing software updates that resolve known security vulnerabilities and other stability issues in the Windows 2000, Windows XP, and Windows Server 2003 operating systems. This module also describes how to install the server and client computer components of Software Update Services, and it provides necessary information about managing the Software Update Services infrastructure.

#### Lessons

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- Introduction to Software Update Services
- Installing and Configuring Software Update Services
- Managing a Software Update Services Infrastructure

### Lab A: Maintaining Software by Using Software Update Services

After completing this module, students will be able to:

- Describe Software Update Services.
- Install Software Update Services, and configure servers and client computers to use it.
- Manage the Software Update Services infrastructure.

### Module 7: Planning, Implementing, Optimizing, and Troubleshooting Name Resolution

This module introduces and describes the new Domain Name System (DNS) features in Windows Server 2003. It explains how to plan and implement DNS in a Windows Server 2003 environment, as well as how to troubleshoot host name resolution. This module also describes how to plan for Windows Internet Name Service (WINS) replication in a Windows Server 2003 environment.

#### Lessons

- Understanding New DNS Features
- Planning a DNS Implementation
- Implementing DNS
- Troubleshooting Host Name Resolution
- Planning a WINS Replication Strategy

### Lab A: Planning a DNS Configuration

After completing this module, students will be able to:

- Describe the new DNS features.
- Plan a DNS implementation.
- Implement DNS.
- Troubleshoot host name resolution.
- Plan a WINS replication strategy.

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## Module 8: Planning a PKI and an IPSec Deployment

This module describes how to plan a public key infrastructure (PKI) and an Internet Protocol Security (IPSec) deployment in a Windows Server 2003 environment. The module provides factual and conceptual information about a PKI and IPSec, as well as guidelines for planning for their implementation.

### Lessons

- Introduction to Public Key Infrastructure
- Planning a Public Key Infrastructure
- Understanding Default IPSec Policy Rules
- Planning an IPSec Deployment

### Lab A: Planning a CA Hierarchy and an IPSec Deployment

After completing this module, students will be able to:

- Describe a PKI.
- Plan a PKI.
- Explain IPSec default policies, rules, and settings.
- Plan an IPSec deployment.

## Module 9: Planning and Troubleshooting Network Access

This module describes how to plan and troubleshoot network access in a Windows Server 2003 environment. The module describes and offers guidelines for planning the numerous components of a network access strategy, including connection methods, authentication methods, and a remote access policy strategy. This module also describes the tools and processes used to troubleshoot network access problems.

### Lessons

- Selecting Network Access Connection Methods
- Selecting Network Access Authentication Methods
- Planning a Remote Access Policy Strategy
- Troubleshooting Network Access

### Lab A: Planning Network Access

After completing this module, students will be able to:

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- Select network access connection methods.
- Select a network access authentication method.
- Select a remote access policy strategy.
- Troubleshoot network access problems.

## Module 10: Implementing Active Directory

This module introduces and describes the new Active Directory features, including forest and domain functional levels, forest trusts, replication enhancements, and LDAP traffic signing. The module describes how to install a domain controller in a Windows Server 2003 environment. The module explains how to use several additional new Active Directory features to perform various administrative tasks. Finally, the module describes the types of trusts in Windows Server 2003 Active Directory, and how to configure each of these types of trusts.

### Lessons

- New Active Directory Features in Windows Server 2003
- Installing Active Directory
- Administering Windows Server 2003 by Using the New Active Directory Features
- Configuring Trusts

### Lab A: Implementing Active Directory

After completing this module, students will be able to:

- Describe the new features of Active Directory.
- Install Active Directory.
- Administer Windows Server 2003 by using the new Active Directory features.
- Configure trusts.

## Module 11: Planning the Placement of Domain Controllers

This module describes how to plan the placement of domain controllers, global catalog servers, and operations masters in a Windows Server 2003 environment. The module also explains how to enable a global catalog server and how to enable universal group membership caching. Finally, the module describes how to transfer and seize operations master roles.

### Lessons

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- Planning the Placement of Domain Controllers and Global Catalog Servers
- Planning the Placement of Operations Masters

### Lab A: Planning the Placement of Domain Controllers

After completing this module, students will be able to:

- Plan the placement of domain controllers and global catalog servers.
- Plan the placement of operations masters.

### Module 12: Planning, Implementing, Managing, and Troubleshooting Group Policy

This module describes the changes in using Group Policy in a Windows Server 2003 environment. The module describes how to plan a Group Policy strategy, how to configure security by using Group Policy, how to manage software by using Group Policy, and how to troubleshoot Group Policy.

### Lessons

- Planning a Group Policy Strategy
- Configuring Security by Using Group Policy
- Managing Software by Using Group Policy
- Troubleshooting Group Policy

### Lab A: Planning, Implementing, Managing, and Troubleshooting Group Policy

After completing this module, students will be able to:

- Plan a Group Policy strategy.
- Configure security by using Group Policy.
- Manage software by using Group Policy.
- Troubleshoot Group Policy.