



## Preliminary Workshop Syllabus

### **Updating Systems Administrator Skills from Microsoft Windows 2000 to Windows Server 2003**

*Elements of this syllabus are subject to change.*

This two-day instructor-led workshop provides students with the knowledge and skills to manage and maintain a Microsoft® Windows® Server 2003 networked environment.

This discovery-based workshop consists primarily of labs that provide hands-on experience focused exclusively on the skills and objectives that align with Exam 70-292, *Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000*.

#### **Audience**

This workshop is intended for Windows 2000 systems administrators and systems engineers with experience managing and supporting a Windows 2000-based Active Directory® directory service-based network. The workshop is targeted specifically to students who have practical, hands-on experience using Windows 2000 and need to quickly learn how to apply those skills in a Windows Server 2003 environment. This learning product is designed to train people who learn best by doing.

This workshop is also meant as an aid in preparing for Exam 70-292, *Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000*. Note that this exam will be available only to individuals who hold an MCSA on Windows 2000 or MCSE on Windows 2000 certification.

#### **At Workshop Completion**

After completing this workshop, students will be able to:

- Identify the systems administration tasks in Windows Server 2003 that are new or different from the tasks performed in Windows 2000.
- Manage user, computer, and group accounts in a Windows Server 2003 Active Directory-based environment.
- Use the Group Policy Management Console (GPMC) to manage Group Policy.
- Manage resources and security.
- Configure and manage DNS.
- Manage servers in remote locations.
- Manage Terminal Services.
- Manage IIS 6.0 Web Services.
- Maintain computers that run Windows operating systems by implementing and managing Software Update Services.
- Prepare for and implement disaster recovery solutions.

#### **Prerequisites**

Before attending this workshop, students must have:

- Either an MCSA on Windows 2000 or MCSE on Windows 2000 certification, or equivalent knowledge and skills.

Students can gain the pre-requisite knowledge and skills by completing one of the following groups of courses:

- Course 2151, *Microsoft Windows 2000 Network and Operating System Essentials*
- Course 2152, *Implementing Microsoft Windows 2000 Professional and Server*
- Course 2126, *Managing a Microsoft Windows 2000 Network Environment*

—or—

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**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.**

#### **Key Data**

**Workshop #:** 2209

**Number of Days:** 2

**Format:** Workshop

**Certification Exams: 70-292**

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

- 70-292, *Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000*

**Certification Track: MCSA/MCSE**

**This workshop 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.**

## Workshop Outline • Updating Systems Administrator Skills from Microsoft Windows 2000 to Windows Server 2003

- Course 2151, *Microsoft Windows 2000 Network and Operating System Essentials*
- Course 2152, *Implementing Microsoft Windows 2000 Professional and Server*
- Course 2153, *Implementing a Microsoft Windows 2000 Network Infrastructure*
- Course 2154, *Implementing and Administering Microsoft Windows 2000 Directory Services*

### Student Materials

The student kit includes a workbook and other necessary materials for this class. An Evaluation copy of Windows Server 2003, Enterprise Edition (for educational use only) is also provided in the student kit.

### Unit 1: Introduction to Systems Administration in Windows Server 2003

This unit explains how to perform systems administration tasks in a Windows Server 2003 environment, as well as introducing the scenarios and tools that will be used throughout the workshop.

#### Unit Objectives

After completing this unit, students will be able to:

- Identify the products in the Windows Server 2003 family.
- Describe the tools and resources available to perform tasks throughout the workshop.

### Unit 2: Managing Users, Computers, and Groups

This unit explains how to manage users, computers, and groups in an Active Directory directory service environment taking advantage of the new capabilities available in Windows Server 2003.

#### Unit Objectives

After completing this unit, students will be able to:

- Create user accounts by using CSVDE.
- Create user accounts by using the **dsadd** command.
- Modify the properties of multiple accounts.
- Create computer accounts by using the **dsadd** command.
- Create groups by using the **dsadd** command.
- Add members to a group by using the **dsmod** command.
- Copy the properties from an existing account when creating a new account.
- Find Active Directory objects.
- Move an Active Directory object by using the drag and drop technique of management in Active Directory Users and Computers.
- Reset computer accounts.
- Describe the effect of resetting passwords in Windows Server 2003.
- Determine the effective permissions on an Active Directory object.

### **Unit 3: Using the GPMC to Manage Group Policy**

This unit gives a hands-on, fast paced opportunity to experienced users to orient themselves to Microsoft Windows Server 2003 and learn how to use the Group Policy Management Console (GPMC) to manage Group Policy.

#### **Unit Objectives**

After completing this unit, students will be able to:

- Implement Group Policy by using the GPMC.
- Use the **gpupdate** command to refresh a GPO.
- Manage GPOs by using the GPMC, which includes:
  - Backing up a GPO
  - Copying a GPO
  - Importing a GPO
- Use Group Policy Results to troubleshoot Group Policy-related issues.
- Use Group Policy Modeling to experiment with possible Group Policy configurations.

### **Unit 4: Managing Resources and Security**

This unit explains how to use enhancements to the tools available in Windows Server 2003 to manage resources and security by using Windows Explorer, Group Policy management tools, and the Security Configuration and Analysis tool.

#### **Unit Objectives**

After completing this unit, students will be able to:

- Determine the effective NTFS permissions for files and folders.
- Change the owner for an existing file or folder.
- Create custom security templates.
- Apply security templates by using Group Policy.
- Configure NTFS permissions by using security templates.
- Audit security settings by using Security Configuration and Analysis.

## **Unit 5: Managing DNS**

This unit gives a hands-on, fast paced opportunity to experienced users to orient themselves to Microsoft Windows Server 2003 and learn how to configure and manage DNS.

### **Unit Objectives**

After completing this unit, students will be able to:

- Install DNS by using the Manage Your Server tool.
- Create forward lookup zones.
- Create reverse lookup zones.
- Configure DNS conditional forwarding.
- Configure DNS zones, which includes:
  - Configuring zone options.
  - Configuring zones for secure dynamic update.
  - Configuring Active Directory integrated zones.
- Create DNS stub zones.

## **Unit 6: Managing Servers**

This unit explains how to manage server remotely using secure best practices.

### **Unit Objectives**

After completing this unit, students will be able to:

- Create desktop shortcuts that run the **Run as** command.
- Connect to a remote server by using MMC snap-in tools.
- Connect to a remote server by using the Remote Desktop Connection utility.
- Determine the best tool to use for remote administration in specific situation.
- Configure client connection speed for the Remote Desktop Connection utility.
- Configure auto reconnect for the Remote Desktop Connection utility.

## **Unit 7: Managing Terminal Services**

This unit explains how to configure and manage Terminal Services and take advantage of the new capabilities available with that service.

#### **Unit Objectives**

After completing this unit, students will be able to:

- Install Terminal Services.
- Install a Terminal Services Licensing server.
- Configure Terminal Services, which includes:
  - Setting the level of encryption for terminal server user sessions.
  - Controlling terminal server user connection access.
  - Configuring time-out settings from remote connections.
  - Monitoring remote desktop connection sessions.
- Manage user sessions by using Terminal Services Manager.
- Diagnose and resolve issues related to Terminal Services security.
- Diagnose and resolve issues related to Terminal Server License issues.

### **Unit 8: Managing IIS 6.0 Web Services**

This unit explores the new skills needed to manage and maintain the IIS service on Windows Server 2003. This unit will provide students with hands-on experience configuring and managing the IIS service and highlights the default state of the service when Windows Server 2003 is installed.

#### **Unit Objectives**

After completing this unit, students will be able to:

- Install IIS 6.0
- Configure authentication
- Install ASP.NET
- Allow ASP.NET in Web service extensions
- Manage ASP.NET configuration files
- Implement Web applications
- Implement application pooling
- Manage the IIS 6.0 metabase
- Manage an IIS server in a remote location
- Monitor and optimize IIS 6.0

### **Unit 9: Maintaining Software by Using Software Update Services**

This unit explains how to use SUS to perform patch management for a networked environment.

#### **Unit Objectives**

After completing this unit, students will be able to:

- Install and configure SUS on a server.
- Configure automatic updates.
- Use Group Policy to configure SUS clients.
- Manage a software update infrastructure.
- Back up and restore an SUS configuration.
- Test an SUS implementation.

## **Unit 10: Managing Disaster Recovery**

This unit explains how to use the new capabilities available with Windows Server 2003 to restore a system to a previous state. The students will practice troubleshooting and repairing a system by using features such as ASR and driver rollback in a lab environment to restore a system to a predefined state.

### **Unit Objectives**

After completing this unit, students will be able to:

- Use Automatic System Recovery (ASR) to back up and restore a server.
- Restore data from shadow copies.
- Roll back to a previous version of a device driver.
- Configure security for backup operations.
- Troubleshoot problems associated with restoring data.
- Troubleshoot issues related to the boot process.