

Introduction

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Instructor Notes

Presentation:
30 Minutes

This module provides students with an overview of the course content, materials, and logistics for Course 2154, *Implementing and Administering Microsoft® Windows® 2000 Directory Services*.

Course Materials and Preparation

Required Materials

To teach this course, you need the following materials:

- Delivery Guide
- Trainer Materials compact disc

Preparation Tasks

To prepare for this course, you must:

- Complete the Course Preparation Checklist that is included with the trainer course materials.

Module Strategy

Use the following strategy to present this module:

- *Course 2154, Implementing and Administering Microsoft Windows 2000 Directory Services*
Show the slide that displays the course number and course title.
- **Introduction**
Welcome students to the course and introduce yourself. Provide a brief overview of your background to establish credibility.
Have students introduce themselves and provide their background, product experience, and expectations of the course.
Record student expectations on a white board or flip chart that you can reference later in class.
- **Course Materials**
Explain the purpose of all materials used in this course.
Tell students that they will have an opportunity at the end of class to provide feedback on the course and facilities by using the Microsoft Online Evaluation System.
- **Prerequisites**
Provide the students with the list of prerequisites that they should have met before taking this course. This is an opportunity for you to identify students who may not have the appropriate background or experience to attend this course.
- **Course Outline**
Provide an overview of each module and what students will learn.
Explain how this course will meet students' expectations by relating the information covered in individual modules to their expectations.
- **Microsoft Official Curriculum**
Inform students about the Microsoft Official Curriculum program and refer them to the Microsoft Official Curriculum Web page at <http://www.microsoft.com/traincert>.
- **Microsoft Certified Professional Program**
Inform students about the Microsoft Certified Professional (MCP) program and the various certification options.
- **Facilities**
Explain the facility information for the training site.

Introduction

Topic Objective

To introduce yourself, establish credibility, meet students, and set student expectations for the course.

Lead-in

Good morning. Welcome to Course 2154, *Implementing and Administering Microsoft Windows 2000 Directory Services*.

My name is...

- Name
- Company Affiliation
- Title/Function
- Job Responsibility
- Networking Experience
- Windows 2000 Experience
- Expectations for the Course

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Introduce yourself.

Provide a brief overview of your background to establish credibility as a Windows 2000 instructor.

Ask students to introduce themselves, addressing the bulleted items on the slide.

Delivery Tip

As students introduce themselves, use a white board or flip chart to record their expectations of the course.

Course Materials

Topic Objective

To identify and describe the course materials.

Lead-in

We have provided everything you need for this course. You will find the following materials at your desk...

- **Name Card**
- **Student Workbook**
- **Student Materials Compact Disc**
- **Course Evaluation**

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Describe the contents of the student workbook and the Student Materials compact disc.

Have students write their names on both sides of the name card.

Tell students that a course evaluation must be completed at the end of the course.

Tell students where they can send comments.

Delivery Tip

Demonstrate how to open the Web page provided on the Student Materials compact disc. On the Trainer Materials compact disc, double-click **Default.htm** in the StudentCD folder.

The following materials are included with your kit:

- *Name card.* Write your name on both sides of the name card.
- *Student workbook.* The student workbook contains the material covered in class, in addition to the hands-on lab exercises.
- *Student Materials compact disc.* The Student Materials compact disc contains the Web page that provides students with links to resources pertaining to this course, including additional readings, review and lab answers, lab files, multimedia presentations, and course-related Web sites.

The Student Materials compact disc also includes the following self-paced courses:

- Course 1080A, *Essentials of Microsoft Visual Basic Scripting Edition 3.0 for Web Site Development*, provides students who have little or no formal programming background with the knowledge and skills necessary to use the Microsoft® Visual Basic® Scripting language.
- Course 1279B, *Implementing Microsoft Windows Media Services*, provides the knowledge and skills necessary to install, configure, and maintain Microsoft Windows Media™ Services.
- Course 1400A, *Deploying and Customizing Microsoft Internet Explorer 5 Using Microsoft Internet Explorer Administration Kit*, provides the knowledge and skills necessary to customize, deploy, and administer Microsoft Internet Explorer 5.0 by using the Internet Explorer Administration Kit.

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- Course 2000B, *Microsoft Windows 2000: First Look*, introduces the structure and features of the Microsoft Windows® 2000 operating systems. This course provides prospective customers with the knowledge necessary to evaluate the advantages and benefits of incorporating Windows 2000 in their business environments.

Note To open the Student Materials Web page, insert the Student Materials compact disc into the CD-ROM drive, and then in the root directory of the compact disc, double-click **Default.htm**.

- *Course evaluation.* To provide feedback on the course, training facility, and instructor, you will have the opportunity to complete an online evaluation near the end of the course.

To provide additional comments or inquire about the Microsoft Certified Professional program, send e-mail to mcphelp@microsoft.com.

Prerequisites

Topic Objective

To present and describe the prerequisites for this course.

Lead-in

The following prerequisite knowledge is needed for this course.

- **Course 2151, *Microsoft Windows 2000 Network and Operating System Essentials*, or Equivalent Skills and Knowledge**
- **Course 2152, *Implementing Microsoft Windows 2000 Professional and Server*, or Equivalent Skills and Knowledge**
- **Course 2153, *Implementing a Microsoft Windows 2000 Network Infrastructure*, or Equivalent Skills and Knowledge**
- **A Thorough Understanding of DNS**

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This course requires that you meet the following prerequisites:

- Course 2151, *Microsoft Windows 2000 Network and Operating System Essentials*, or equivalent skills and knowledge.
- Course 2152, *Implementing Microsoft Windows 2000 Professional and Server*, or equivalent knowledge and skills.

This includes installing Windows 2000, using administrative tools in Windows 2000, configuring hard disks and partitions, creating users, creating and using security groups to manage access to resources, creating and administering printers, and setting up and administering permissions for files and folders.

- Course 2153, *Implementing a Microsoft Windows 2000 Network Infrastructure*, or equivalent knowledge and skills.

This includes installing and configuring Transmission Control Protocol/Internet Protocol (TCP/IP), Domain Name System (DNS), and Certificate services.

- A thorough understanding of DNS, including hands-on experience configuring DNS, and setting up forward and reverse lookup zones.

Course Outline

Topic Objective

To provide an overview of each module and what students will learn.

Lead-in

In this course, we will cover the knowledge and skills necessary to install, configure, and administer Windows 2000 Active Directory.

- **Module 1: Introduction to Active Directory in Windows 2000**
- **Module 2: Implementing DNS to Support Active Directory**
- **Module 3: Creating a Windows 2000 Domain**
- **Module 4: Setting Up and Administering Users and Groups**

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Briefly describe each module.

As you describe each module, acknowledge any information that will meet the student expectations that you recorded earlier.

Module 1, "Introduction to Active Directory in Windows 2000," introduces the concept of the Active Directory® directory service, which is the directory service in Windows 2000. The module describes the logical and physical structure of Active Directory, and then describes the centralized management features of Windows 2000. At the end of this module, you will be able to identify the logical and physical components of Active Directory and describe the methods of administering a Windows 2000 network.

Module 2, "Implementing DNS to Support Active Directory," explains how to configure DNS to support an Active Directory installation for a Windows 2000 network. The module describes how Active Directory uses DNS as its location service, and describes the differences between DNS and Active Directory name resolution. The module also describes how client computers running Windows 2000 use DNS to locate domain controllers. At the end of this module, you will be able to install and configure DNS to support Active Directory.

Module 3, "Creating a Windows 2000 Domain," explains how to install Active Directory on a computer running Windows 2000 Server. The module describes the Active Directory installation process, identifies the post installation tasks that you perform after Active Directory is installed, such as changing the domain mode, configuring Active Directory integrated DNS zones, and implementing an organizational unit structure. At the end of this module, you will be able to create Windows 2000 domains by installing Active Directory.

Module 4, "Setting Up and Administering Users and Groups," explains how to set up and administer domain user accounts so that users can gain access to resources in an Active Directory network. At the end of this module, you will be able to automatically create multiple user accounts by importing the user information into Active Directory, administer domain user accounts, and implement a strategy for using security groups to manage access to domain-based resources.

Course Outline (*continued*)

- **Module 5: Publishing Resources in Active Directory**
- **Module 6: Delegating Administrative Control**
- **Module 7: Implementing Group Policy**
- **Module 8: Using Group Policy to Manage User Environments**

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Module 5, “Publishing Resources in Active Directory,” explains how to publish and administer resources, such as shared folders and printers, in Active Directory. At the end of this module, you will be able to set up and administer published printers in Active Directory, set up locations for published printers, and set up and administer published shared folders in Active Directory.

Module 6, “Delegating Administrative Control,” explains how to decentralize administrative tasks by delegating administrative control of Active Directory objects. The module describes the security infrastructure of Active Directory, and describes how to delegate administrative control by assigning permissions to Active Directory objects. The module also describes how to create and deploy customized administrative tools for delegated administrative tasks. At the end of this module, you will be able to delegate administrative control in Active Directory.

Module 7, “Implementing Group Policy,” explains how to implement Group Policy to centrally manage users and computers in a Windows 2000 network. The module describes the structure of Group Policy, and how Group Policy is applied to and inherited by organizational units (OUs), users, and computers. The module also describes the tools used to monitor and troubleshoot Group Policy. At the end of this module, you will be able to implement Group Policy to manage users and computers.

Module 8, “Using Group Policy to Manage User Environments,” explains how to configure and manage the user desktop environment by using Group Policy. The module describes how to use administrative templates in Group Policy to assign registry-based Group Policy to control and configure user and computer environments. The module also describes how to use Group Policy to assign scripts that control user environments, redirect user folders to a central network location, secure the user environment, and troubleshoot managing user environments. At the end of this module, you will be able to use Group Policy to configure and manage the user desktop environment.

Course Outline (*continued*)

- **Module 9: Using Group Policy to Manage Software**
- **Module 10: Creating and Managing Trees and Forests**
- **Module 11: Managing Active Directory Replication**
- **Module 12: Managing Operations Masters**

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Module 9, “Using Group Policy to Manage Software,” explains how to deploy and manage software by using Group Policy. The module introduces the Windows Installer service and describes how to use it with Group Policy to centrally deploy and manage software on user desktops. At the end of this module, you will be able to deploy, manage, upgrade, and remove software by using Group Policy.

Module 10, “Creating and Managing Trees and Forests,” explains how to create and manage trees and forests. The module describes how to create child domains by installing Active Directory, and describes how trust relationships impact the sharing of resources in trees and forests. The module also describes the functions that the global catalog provides during user logons and when users search Active Directory. The module also describes strategies for using universal groups to manage access to forest-wide resources. At the end of this module, you will be able to create and manage trees and forests.

Module 11, “Managing Active Directory Replication,” explains how to manage Active Directory replication, both within a site and between sites. The module describes in detail the replication process, and how to configure Windows 2000 sites to optimize and manage Active Directory replication. At the end of this module, you will be able to configure Active Directory replication, use sites to optimize and manage replication, monitor replication traffic, and troubleshoot common problems with Active Directory replication.

Module 12, “Managing Operations Masters,” explains how to manage the operations masters in Active Directory. At the end of this module, you will be able to describe the five operations master roles and how they function in an Active Directory network, and transfer and seize an operations master role.

Course Outline (*continued*)

- **Module 13: Maintaining the Active Directory Database**
- **Module 14: Implementing an Active Directory Infrastructure**

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Module 13, “Maintaining the Active Directory Database,” explains how to manage and restore the Active Directory database. The module describes how data in Active Directory is modified, and explains the difference between an authoritative and nonauthoritative restore. At the end of this module, you will be able to move the Active Directory database to a new location, back up system state data by using the Backup utility, and restore Active Directory by restoring the system state data on a domain controller.

Module 14, “Implementing an Active Directory Infrastructure,” explains how to implement an Active Directory infrastructure based on a given business scenario. At the end of this module, you will be able to implement an Active Directory structure by using an Active Directory design that is based on the functional requirements of a fictitious organization. Students will work together as a team to implement all aspects of an Active Directory infrastructure.

Microsoft Official Curriculum

Topic Objective

To explain the Microsoft Official Curriculum program and provide information about curriculum paths.

Lead-in

Let's briefly talk about the Microsoft Official Curriculum program.



- Microsoft Windows 2000
- Microsoft Office 2000
- Microsoft BackOffice Small Business Server
- Microsoft SQL Server
- Microsoft Exchange 2000
- Microsoft BackOffice Server Infrastructure and Solutions
- Microsoft FrontPage
- Microsoft Systems Management Server
- Knowledge Management Solutions

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Microsoft® Official Curriculum (MOC) is hands-on facilitated classroom and Web-based training. Microsoft develops skills-based training courses to educate computer professionals who develop, support, and implement solutions by using Microsoft products, solutions, and technologies. MOC courses are available for the following products and solutions:

- Microsoft Windows® operating systems
- Microsoft Office
- Microsoft BackOffice® Small Business Server
- Microsoft SQL Server™
- Microsoft Exchange
- Microsoft BackOffice Server Infrastructure and Solutions
- Microsoft FrontPage®
- Microsoft Systems Management Server
- Knowledge Management Solutions

MOC provides a curriculum path for each product and solution. For more information on the curriculum paths, see the Microsoft Official Curriculum Web page at <http://www.microsoft.com/traincert>.

The Microsoft Official Curriculum Web page provides information about MOC courses. In addition, you can find recommended curriculum paths for individuals who are entering the Information Technology (IT) industry, who are continuing their training on Microsoft products and solutions, or who currently support non-Microsoft products.

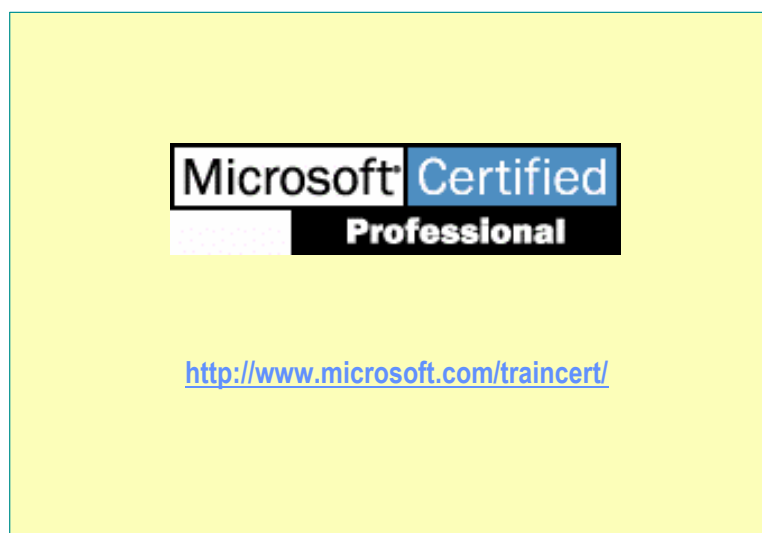
Microsoft Certified Professional Program

Topic Objective

To provide students with information about the Microsoft Certified Professional Program.

Lead-in

The Microsoft Certified Professional Program includes these certifications.



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The Microsoft Certified Professional program is a leading certification program that validates your experience and skills to keep you competitive in today's changing business environment. The following table describes each certification in more detail.

Certification	Description
MCSA on Microsoft Windows 2000	The Microsoft Certified Systems Administrator (MCSA) certification is designed for professionals who implement, manage, and troubleshoot existing network and system environments based on Microsoft Windows 2000 platforms, including the Windows .NET Server family. Implementation responsibilities include installing and configuring parts of the systems. Management responsibilities include administering and supporting the systems.
MCSE on Microsoft Windows 2000	The Microsoft Certified Systems Engineer (MCSE) credential is the premier certification for professionals who analyze the business requirements and design and implement the infrastructure for business solutions based on the Microsoft Windows 2000 platform and Microsoft server software, including the Windows .NET Server family. Implementation responsibilities include installing, configuring, and troubleshooting network systems.
MCSD	The Microsoft Certified Solution Developer (MCSD) credential is the premier certification for professionals who design and develop leading-edge business solutions with Microsoft development tools, technologies, platforms, and the Microsoft Windows DNA architecture. The types of applications MCSDs can develop include desktop applications and multi-user, Web-based, N-tier, and transaction-based applications. The credential covers job tasks ranging from analyzing business requirements to maintaining solutions.
MCDBA on Microsoft SQL Server 2000	The Microsoft Certified Database Administrator (MCDBA) credential is the premier certification for professionals who implement and administer Microsoft SQL Server databases. The certification is appropriate for individuals who derive physical database designs, develop logical data models, create physical databases, create data services by using Transact-SQL, manage and maintain databases, configure and manage security, monitor and optimize databases, and install and configure SQL Server.

(continued)

Certification	Description
MCP	The Microsoft Certified Professional (MCP) credential is for individuals who have the skills to successfully implement a Microsoft product or technology as part of a business solution in an organization. Hands-on experience with the product is necessary to successfully achieve certification.
MCT	Microsoft Certified Trainers (MCTs) demonstrate the instructional and technical skills that qualify them to deliver Microsoft Official Curriculum through Microsoft Certified Technical Education Centers (Microsoft CTECs).

Certification Requirements

The certification requirements differ for each certification category and are specific to the products and job functions addressed by the certification. To become a Microsoft Certified Professional, you must pass rigorous certification exams that provide a valid and reliable measure of technical proficiency and expertise.

For More Information See the Microsoft Training and Certification Web site at <http://www.microsoft.com/traincert/>.

You can also send e-mail to mcphelp@microsoft.com if you have specific certification questions.

Acquiring the Skills Tested by an MCP Exam

Microsoft Official Curriculum (MOC) and MSDN® Training Curriculum can help you develop the skills that you need to do your job. They also complement the experience that you gain while working with Microsoft products and technologies. However, no one-to-one correlation exists between MOC and MSDN Training courses and MCP exams. Microsoft does not expect or intend for the courses to be the sole preparation method for passing MCP exams. Practical product knowledge and experience is also necessary to pass the MCP exams.

To help prepare for the MCP exams, use the preparation guides that are available for each exam. Each Exam Preparation Guide contains exam-specific information, such as a list of the topics on which you will be tested. These guides are available on the Microsoft Training and Certification Web site at <http://www.microsoft.com/traincert/>.

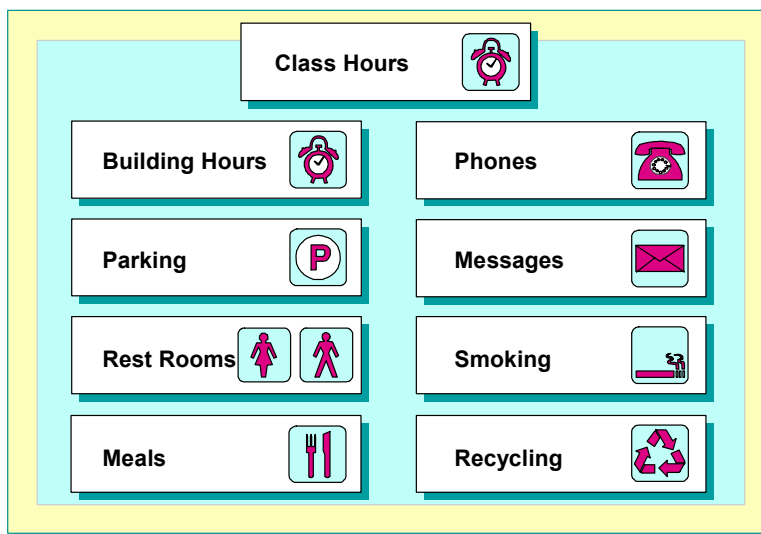
Facilities

Topic Objective

To inform students of class logistics and rules for the training site.

Lead-in

Before we start, let's go over the class logistics.



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Explain the class hours, extended building hours for labs, parking, rest room location, meals, phones, message posting, and where smoking is or isn't allowed.

Also make sure that the students are aware of the recycling program if one is available.