

Introduction

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Simulations and interactive exercises were built with Macromedia Authorware

Instructor Notes

Presentation:
30 Minutes

The “Introduction” module provides students with an overview of the course content, materials, and logistics for Course 2153, *Implementing a Microsoft® Windows® 2000 Network Infrastructure*.

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:

- Pass the appropriate Microsoft Certified Professional exams.
- Pass Microsoft Authorized Trainer Exam: 076-203: *Updating Support Skills from Microsoft Windows NT 4.0 to Microsoft Windows 2000*.
- Review all contents on the Trainer Materials compact disc.
- Review the Trainer Preparation Presentation on the Trainer Materials compact disc.
- Read the Trainer Delivery Guide for the course.
- Read the Instructor Notes that precede each module. The Instructor Notes contain preparation suggestions for each module.
- Read any recommended documents that are mentioned in the Instructor Notes section for each module.
- Practice using the Microsoft products and tools that are used in this course.
- Practice presenting each module and demonstration.
- Review the Classroom Setup Guide.
- Practice each lab. Anticipate the questions that students may have.
- Identify the key points for each topic, demonstration, and lab.
- Identify how each demonstration and lab supports the module topics and reinforces the module objectives.
- Identify examples, analogies, demonstrations, and additional delivery strategies that will help to clarify module topics for students.
- Identify the information that students need to complete each lab successfully.

- Note any problems that you may encounter during a demonstration or lab, and determine a course of action for resolving them in the classroom.
- Identify additional preparation that is required to ensure the success of each demonstration and lab.
- Identify ways to customize a demonstration or lab to provide a more meaningful learning experience for your specific audience.
- Review the Microsoft Certified Professional Web site (<http://www.microsoft.com/mcp/>) for updated information about the Microsoft Certified Professional program.
- Familiarize yourself with using the Microsoft Online Evaluation System to gather feedback from students. Start by reading the information located at: <http://www.microsoft.com/onlineeval/instructions.doc>.

Module Strategy

Use the following strategy to present this module:

- *Course 2153: Implementing a Microsoft Windows 2000 Network Infrastructure*

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 backgrounds, 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 backgrounds 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**

Present an overview of the Microsoft Official Curriculum program and refer students 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.

- **Classroom Configuration**

Explain the classroom configuration and help students identify the configuration parameters for their computers.

Introduction

Topic Objective

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

Lead-in

Good morning. Welcome to Course 2153, *Implementing a Microsoft Windows 2000 Network Infrastructure*.

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 courses:

- Course 1279C, *Implementing Microsoft Windows Media Services*, is a self-paced course that 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 the Internet Explorer Administration Kit*, is a self-paced, online course that provides the knowledge and skills necessary to customize, deploy, and administer Microsoft Internet Explorer 5 by using the Internet Explorer Administration Kit (IEAK). The course describes product features, installation and configuration procedures, and how to manage the deployed software.

-
- Course 2000B, *Microsoft Windows 2000: First Look*, is a self-paced course that introduces the structure and features of the Microsoft Windows® 2000 operating systems. The goal of this course is to provide prospective customers with the knowledge necessary to evaluate the advantages and benefits of incorporating Windows 2000 into their business environments. Course content applies to all Windows 2000 operating systems.

Note To open the 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.

Note Evaluation copies of Windows 2000 Advanced Server and Windows 2000 Professional are included with this course. You can use these products for evaluation or for your training outside the classroom. Microsoft does not support these evaluation copies of the products.

Prerequisites

Topic Objective

To present and describe the prerequisites for this course.

Lead-in

The following prerequisite knowledge is needed for this course.

- **Complete Course 2152, *Implementing Windows 2000 Professional and Server*, or Equivalent Skills And Knowledge**
- **Understand Transmission Control Protocol/Internet Protocol (TCP/IP)**

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This course requires that you meet the following prerequisites:

- Successful completion of course 2152, *Implementing Windows 2000 Professional and Server*, or equivalent skills and knowledge, including the ability to:
 - Install or upgrade to Windows 2000
 - Configure the Windows 2000 environment
 - Connect Windows 2000–based client computers to networks
 - Create and manage user accounts
 - Manage access to resources by using groups
 - Manage data by configuring the NTFS file system
 - Provide network access to file resources
 - Configure and manage disks and partitions
 - Monitor and optimize Windows 2000
 - Implement Windows 2000 security
 - Configure printing
 - Configure Windows 2000 for mobile computing
 - Implement disaster protection
 - Install and configure Terminal Services
 - Implement Windows 2000–based client computers
 - Implement Windows 2000–based servers
- An understanding of Transmission Control Protocol/Internet Protocol (TCP/IP)

Course Outline

Topic Objective

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

Lead-in

In this course, we will cover...

- **Module 1: Introduction to the Microsoft Windows 2000 Networking Infrastructure**
- **Module 2: Automating IP Address Assignment by Using DHCP**
- **Module 3: Implementing Name Resolution by Using DNS**
- **Module 4: Implementing Name Resolution by Using WINS**
- **Module 5: Configuring Network Security by Using Public Key Infrastructure**
- **Module 6: Configuring Network Security by Using IPSec**

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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 the Microsoft Windows 2000 Networking Infrastructure," presents an overview of the Windows 2000 networking infrastructure and introduces key networking technologies. It starts with an overview of the networking infrastructure. It then describes how to establish Transmission Control Protocol/Internet Protocol (TCP/IP) connectivity and provide network security and support for remote users. It continues by explaining how to publish Web content. It then explains how to manage a Windows 2000 network. The module concludes by listing the non-Microsoft clients and servers that you can connect to a Windows 2000 network. At the end of this module, you will be able to describe the Microsoft Windows 2000 networking infrastructure.

Module 2, "Automating IP Address Assignment by Using DHCP," introduces the Dynamic Host Configuration Protocol (DHCP) and describes how it works on a network. The module begins with an explanation of DHCP. The module continues with an explanation of the requirements for DHCP servers and clients. Next, the module explains how to install the DHCP service. Finally, the module explains how to authorize the DHCP Server service. At the end of this module, you will be able to use DHCP to automate Internet Protocol (IP) address assignment on a network.

Module 3, "Implementing Name Resolution by Using DNS," introduces the Domain Name System (DNS) and describes how it is an integral part of client/server communications in an IP network. The module starts by identifying the two query types, iterative and recursive. It then explains how to install the DNS Server service. Next, it explains how to configure name resolution on client computers. The module then explains how to create and configure DNS zones and how to create a root zone. Finally, the module explains how to maintain and troubleshoot DNS servers. At the end of this module, you will be able to implement name resolution by using DNS.

Module 4, “Implementing Name Resolution by Using WINS,” explains how to configure name resolution by using the Windows Internet Name Service (WINS) to support previous versions of Windows, such as Microsoft Windows NT® version 4.0 and Microsoft Windows 98. The module begins by explaining how to connect to network basic input/output system (NetBIOS)–based networks. It then provides an overview of WINS and explains how to configure WINS servers and clients. The module continues by explaining how to configure support for non-WINS clients. It also explains how to enable WINS database replication. Finally, the module concludes by describing maintenance activities on the WINS server database. At the end of this module, you will be able to implement name resolution by using WINS.

Module 5, “Configuring Network Security by Using Public Key Infrastructure,” explains how to use the Public Key Infrastructure (PKI) in Windows 2000 to take full advantage of the Windows 2000 security architecture. The module begins by describing PKI. It then explains how to deploy Certificate Services. Next, it explains how to use and manage certificates to provide security. The module then explains how to configure the Active Directory™ directory service for certificates. Finally, the module explains how to troubleshoot Certificate Services. At the end of this module, you will be able to configure network security by using PKI.

Module 6, “Configuring Network Security by Using IPSec,” explains how to use Internet Protocol Security (IPSec) to secure private communication over the Internet. The module starts by introducing IPSec. It then explains how to implement IPSec on a network. Next, the module explains how to configure TCP/IP for server functionality. Finally, the module explains how to troubleshoot network protocol security. At the end of this module, you will be able to configure network security by using IPSec.

Course Outline (*continued*)

- **Module 7: Configuring Remote Access**
- **Module 8: Supporting Remote Access to a Network**
- **Module 9: Extending Remote Access Capabilities by Using IAS**
- **Module 10: Configuring a Windows 2000-based Server As a Router**
- **Module 11: Configuring Internet Access for a Network**
- **Module 12: Configuring a Web Server**

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Module 7, “Configuring Remote Access,” explains how to configure remote access to a Windows 2000 network. The module begins by examining remote access in Windows 2000 and discusses the various remote access protocols that Windows 2000 supports. Next, the module describes multilink connections. Then, the module covers authentication and encryption protocols. Finally, the module covers hardware options for remote access. At the end of this module, you will be able to configure remote access in Windows 2000.

Module 8, “Supporting Remote Access to a Network,” explains how to support remote access in Windows 2000. The module begins by explaining remote access policies and how to use them. Next, the module explains the remote access policy evaluation process. Then, the module explains how to create a remote access policy. Finally, the module explains how to troubleshoot remote access policies. At the end of this module, you will be able to support remote access connections to a network.

Module 9, “Extending Remote Access Capabilities by Using IAS,” explains how you can use the Internet Authentication Service (IAS) to implement Remote Authentication Dial-In User Service (RADIUS) security on your network. The module first provides an overview of IAS and the functionality that IAS offers. Next, the module covers the installation and configuration of IAS on your network. At the end of this module, you will be able to use IAS to extend remote access to a Windows 2000 network.

Module 10, “Configuring a Windows 2000-based Server As a Router,” explains the concept of routing in a network. The module begins with an overview of routers and router tables and describes what they do. Next, the module explains how to configure network connections. The module continues by explaining how to enable routing by using Routing and Remote Access. The module then explains how to configure static routes. The module concludes by explaining how to configure a routing interface. At the end of this module, you will be able to configure Windows 2000 as a network router.

Module 11, “Configuring Internet Access for a Network,” explains how to configure Internet access for a network. The module starts by describing the options for connecting a network to the Internet. It then describes how to configure Internet access by using a router. Next, the module describes how to configure Internet access by using network address translation (NAT). At the end of this module, you will be able to configure Internet access for a network.

Module 12, “Configuring a Web Server,” explains the process for configuring a Web server that is running Windows 2000. The module starts with an overview of Internet Information Services (IIS) and the features it offers. Next, the module explains how to prepare for an IIS installation. Then, the module describes the steps necessary to install IIS. Next, the module explains how to configure a Web site. Finally, the module explains how to administer and troubleshoot an IIS installation. At the end of this module, you will be able to configure a Web server.

Course Outline (*continued*)

- **Module 13: Deploying Windows 2000 Professional by Using RIS**
- **Module 14: Managing a Windows 2000 Network**
- **Module 15: Troubleshooting Windows 2000 Network Services**
- **Module 16: Configuring Network Connectivity Between Operating Systems**

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Module 13, “Deploying Windows 2000 Professional by Using RIS,” presents details on using Remote Installation Services (RIS), the basis of the Windows 2000 Remote OS Installation feature. The module starts with an overview of RIS. Next, the module explains how to install and configure RIS. Then, the module explains how to configure remote installation options, such as default options for client names and account locations. Next, the module explains how to deploy an image by using RIS. The module then describes how to create an RIPrep image for use in deployment. The module compares an RIPrep image with a CD-based image to identify the similarities and differences. The module concludes by examining solutions to potential RIS problems. At the end of this module, you will be able to deploy Windows 2000 Professional by using RIS.

Module 14, “Managing a Windows 2000 Network,” begins by identifying several Windows 2000 management strategies. Next, the module explains how you can perform administrative tasks remotely. Then, the module provides an overview of the Simple Network Management Protocol (SNMP) service, and then it discusses how to install the service. Finally, the module explains how to configure SNMP security. At the end of this module, you will be able to manage a Windows 2000 network.

Module 15 “Troubleshooting Windows 2000 Network Services,” explains the steps that you can use to troubleshoot a Windows 2000 network. The module starts with an overview of network troubleshooting. It then identifies the symptoms and causes of many common network problems. Next, the module explains how to resolve TCP/IP problems. The module then explains how to resolve name resolution problems. Finally, the module explains how to troubleshoot the network services and monitor network performance. At the end of this module, you will be able to troubleshoot a Windows 2000 network.

Module 16, “Configuring Network Connectivity Between Operating Systems,” explains how to connect non-Microsoft operating systems to a Windows 2000 network. The module begins by explaining how to configure access to Novell NetWare resources. Next, the module explains how to configure connectivity for Macintosh users. The module then explains how to connect Systems Network Architecture (SNA) hosts by using Host Integration Server. Finally, the module explains how to configure access to UNIX resources. At the end of this module, you will be able to configure connectivity between Windows 2000 and other operating systems.

Microsoft Official Curriculum

Topic Objective

To explain the MOC program and provide information about curriculum paths.

Lead-in

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



- Microsoft Windows Operating System
- Microsoft Office
- 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.

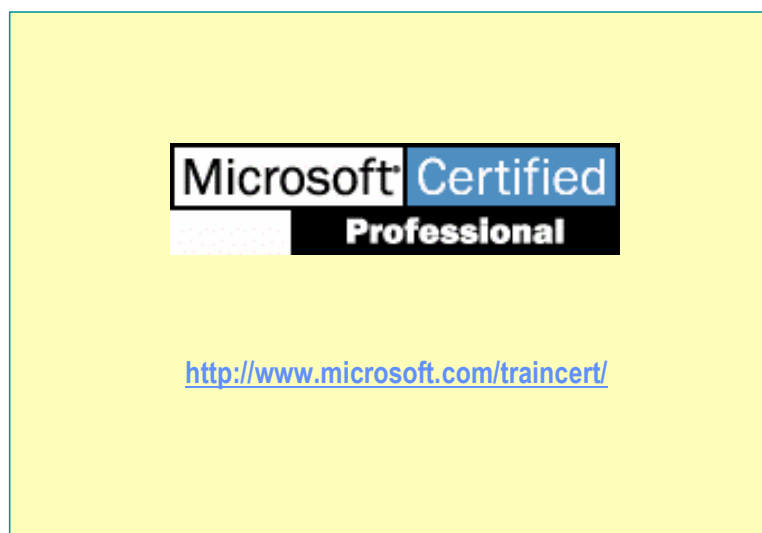
Microsoft Certified Professional Program

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/>.

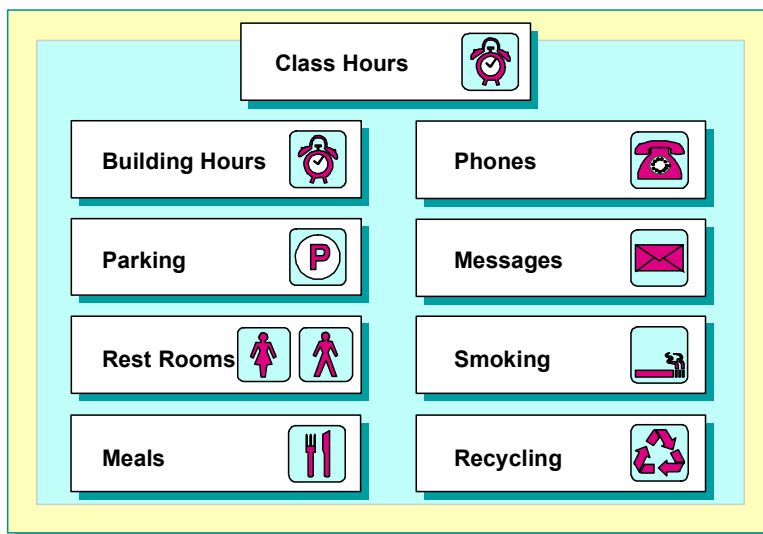
Facilities

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 locations, meals, telephones, message posting, and where smoking is or is not allowed.

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

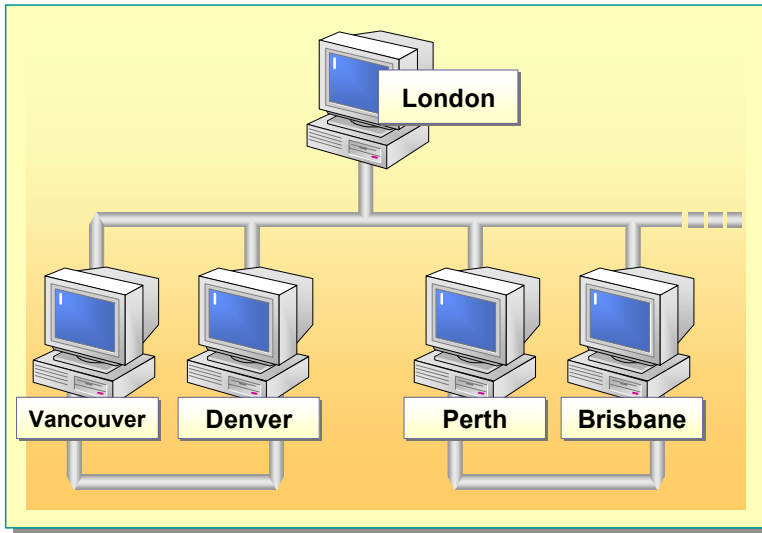
Classroom Configuration

Topic Objective

To explain the classroom configuration.

Lead-in

You will find the course easier if you understand how the classroom is configured.



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Delivery Tip

Explain the classroom configuration to students. Keep the description at a high level, because many students will not understand detailed descriptions of the configuration.

As you progress through this course, you will find it extremely useful to understand how the classroom computers are configured. All computers in the classroom:

- Are configured as domain controllers in a child domain of nwtraders.msft. Each child domain has two domain controllers.
- Are configured with two network adapters. Each adapter performs different functions:
 - One network adapter connects to a classroom network, which in turn connects all student computers and the instructor computer. Your instructor will lead you in an exercise to give this network connection the name *Classroom*.
 - The other network adapter connects to a private network that links each pair of student computers with each other. Your instructor will lead you in an exercise to give this network connection the name *PartnerNet*.

Note Students with computers in the same domain will work in pairs to complete several labs in this course.

Delivery Tip

Walk students through the process of renaming their network connections. This will help them identify the connections during the lab activities in this course.

Renaming Network Connections

You can rename your computer's network connections to allow for easier identification. It is suggested that you rename the network connections on your computer at this time.

To rename your computer's network connections, perform the following steps:

1. Log on as administrator@*domain*.nwtraders.msft (where *domain* is the name of your domain) with a password of **password**.
2. Right-click **My Network Places**, and then click **Properties**.
3. Right-click **Local Area Connection**, and then click **Rename**.
4. Type **Classroom** and then press ENTER.
5. Right-click **Local Area Connection 2**, and then click **Rename**.
6. Type **PartnerNet**, and then press ENTER.
7. Close the Network and Dial-up Connections window.

Delivery Tip

Instruct students to document their computer configuration parameters for use during the lab activities that occur later in this course.

Recording Computer Configuration Parameters

You will need to refer to the initial configuration of your computer throughout the labs. To record the configuration information, double-click the **Computer Configuration** file on your desktop and record the following information for your computer and your partner's computer:

Configuration Parameter	Your Computer	Partner's Computer
-------------------------	---------------	--------------------

Computer Name:

Domain:

At a command prompt, type **ipconfig /all** and then record the following information for your computer and your partner's computer:

Configuration Parameter	Your Computer	Partner's Computer
-------------------------	---------------	--------------------

Classroom network
connection:

IP Address

Subnet mask

Default gateway

DNS servers

WINS servers

PartnerNet network
connection:
IP address

Subnet mask

Default gateway

DNS servers

WINS servers

Student number (the last
octet in the IP address for the
Classroom network
connection):
