



Software Learning Centers
1645 SE. Port St. Lucie Blvd
Port St. Lucie, Florida 34952
PHONE: 772.337.4005 FAX: 772.337.0870



A Division of Moore Solutions inc.

Windows Server™ 2003: Implementing Active Directory® Infrastructure

Course Specifications

Course number: 085627
Software: Active Directory®
Course length: 5.0 day(s)

Course Description

This course provides students with the knowledge and skills to successfully plan, implement, and troubleshoot an Active Directory® directory service infrastructure in Microsoft® Windows® Server 2003. The course focuses on a Windows Server 2003 directory service environment, including forest and domain structure, Domain Name System (DNS), site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user, group, and computer account strategies.

Course Objective: You will plan, implement, and maintain a Microsoft Windows Server™ 2003 Active Directory infrastructure.

Target Student: This course is designed for individuals who are either employed or seeking employment as a systems engineer in medium, large, or enterprise organizations, or who are preparing for the Microsoft Certification exam 70–294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure.

Prerequisites: To ensure your success, we recommend you first take the following Element K course or have equivalent knowledge:

- Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Hardware Requirements

This course requires two computers for the Instructor. Each computer requires the following hardware configuration:

- Pentium III 700 megahertz (MHz)
- PCI 2.1 bus

MSi Software Learning Centers ■ MSi Networking Services ■ MSi Database Services

Divisions of Moore Solutions Inc

Visit Our Web Site [www. mooresolutions.com](http://www.mooresolutions.com)



Software Learning Centers

1645 SE. Port St. Lucie Blvd

Port St. Lucie, Florida 34952

PHONE: 772.337.4005 FAX: 772.337.0870



Commission for
Independent Education

Florida Department of Education

A Division of Moore Solutions inc.

- 768 megabyte (MB) of RAM
- 16-gigabyte (GB) hard disk
- 512-KB L2 cache
- DVD player
- Non-ISA network adapter (10/100 megabits per second (Mbps) full duplex required)
- 4-MB video adapter
- Super VGA (SVGA) monitor (17 inch)
- Microsoft Mouse or compatible pointing device
- Sound card with amplified speakers
- Internet access
- Projection display device that supports SVGA 800 x 600, 256-colors

Each computer requires the following hardware configuration:

- Pentium II 450 MHz
- PCI 2.1 bus
- 512 MB of RAM
- 12-GB hard disk
- 512-KB L2 cache
- DVD player
- Non-ISA network adapter (10/100 Mbps required)
- 4-MB video adapter
- Super VGA (SVGA) monitor (17 inch)
- Microsoft Mouse or compatible pointing device
- Sound card with amplified speakers
- Internet access
- Projection display device that supports SVGA 800 x 600, 256-colors

Platform Requirements

-

Software Requirements

Please note that unless otherwise indicated, this software is not included in the Instructor CD. The primary instructor computer requires the following software:

- Microsoft Windows Server 2003, Enterprise Edition.
- Microsoft Office XP Professional with FrontPage® (FrontPage is included in Microsoft Office XP Developer).
- Group Policy Management Console. You must download gpmc.msi (3.76 MB) from <http://www.microsoft.com> and copy this file to the root directory of a compact disc. You will be prompted to insert this compact disc during the automated setup.

MSi Software Learning Centers ■ MSi Networking Services ■ MSi Database Services

Divisions of Moore Solutions Inc

Visit Our Web Site [www. mooreolutions.com](http://www.mooreolutions.com)



Software Learning Centers

1645 SE. Port St. Lucie Blvd

Port St. Lucie, Florida 34952

PHONE: 772.337.4005 FAX: 772.337.0870



Commission for
Independent Education

Florida Department of Education

A Division of Moore Solutions inc.

- Microsoft Visio® Viewer 2002. You must download vviewer.exe (3.79 MB) from <http://office.microsoft.com/downloads/2002/vviewer.aspx> and copy this file to the root directory of a compact disc. You will be prompted to insert this compact disc during the automated setup.
- Active Directory Sizer. You must download setup.exe (4.2 MB) from <http://www.microsoft.com/windows2000/downloads/tools/sizer/default.asp>, rename it to adsizer.exe, and copy it to the root directory of a compact disc. You will be prompted to insert this compact disc during the automated setup.

The instructor computer Glasgow requires the following software:

- Microsoft Windows Server 2003, Enterprise Edition
- Microsoft Visio Viewer 2002

Please note that unless otherwise indicated, this software is not included in the Instructor CD. Each student computer requires the following software.

- Windows Server 2003, Enterprise Edition
- Active Directory Sizer
- Microsoft Visio Viewer 2002

Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- explore the architecture and functionality of Active Directory, use administrative snap-ins to examine the components of Active Directory, and familiarize yourself with Active Directory design, planning, and implementation..
- identify installation requirements for the Active Directory directory service and create a forest and domain structure by using the Active Directory Installation Wizard.
- create and manage organizational units, delegate common administrative tasks, and plan the implementation of an organizational unit structure.
- plan and implement user, group, and computer accounts in the Active Directory directory service.
- plan and implement a Group Policy strategy to centrally manage users and computers in an enterprise.
- deploy and manage software by using Group Policy in Microsoft Windows Server 2003.
- implement sites to manage and monitor replication in the Active Directory directory service in Microsoft Windows Server 2003.
- plan the placement of domain controllers in an Active Directory directory service network.
- identify the purpose of each operations master role, how to transfer and seize operations master roles, and how to plan the placement of operations masters in the Active Directory directory service.
- maintain the Active Directory® directory service.

MSi Software Learning Centers ■ MSi Networking Services ■ MSi Database Services

Divisions of Moore Solutions Inc

Visit Our Web Site [www. mooresolutions.com](http://www.mooresolutions.com)



Software Learning Centers
1645 SE. Port St. Lucie Blvd
Port St. Lucie, Florida 34952
PHONE: 772.337.4005 FAX: 772.337.0870



Commission for
Independent Education
Florida Department of Education

A Division of Moore Solutions inc.

Course Content

Lesson 1: Introduction to Active Directory Infrastructure

- Topic 1A: The Architecture of Active Directory
- Topic 1B: How Active Directory Works
- Topic 1C: Examine Active Directory
- Topic 1D: The Active Directory Design, Planning, and Implementation Processes

Lesson 2: Implementing an Active Directory Forest and Domain Structure

- Topic 2A: Create a Forest and Domain Structure
- Topic 2B: Examine Active Directory Integrated DNS
- Topic 2C: Raise Forest and Domain Functional Levels
- Topic 2D: Create Trust Relationships

Lesson 3: Implementing an Organizational Unit Structure

- Topic 3A: Create and Manage Organizational Units
- Topic 3B: Delegate Administrative Control of Organizational Units
- Topic 3C: Plan an Organizational Unit Strategy

Lesson 4: Implementing User, Group, and Computer Accounts

- Topic 4A: Introduction to Accounts
- Topic 4B: Create and Manage Multiple Accounts
- Topic 4C: Implement User Principal Name Suffixes
- Topic 4D: Move Objects in Active Directory
- Topic 4E: Plan an Account Strategy
- Topic 4F: Plan an Active Directory Audit Strategy

Lesson 5: Implementing Group Policy

- Topic 5A: Create and Configure GPOs
- Topic 5B: Configure Group Policy Refresh Rates and Group Policy Settings
- Topic 5C: Manage GPOs
- Topic 5D: Verify and Troubleshoot Group Policy
- Topic 5E: Delegate Administrative Control of Group Policy
- Topic 5F: Plan a Group Policy Strategy for the Enterprise

Lesson 6: Deploying and Managing Software by Using Group Policy

- Topic 6A: Introduction to Managing Software Deployment
- Topic 6B: Deploy Software
- Topic 6C: Configure Software Deployment
- Topic 6D: Maintain Deployed Software
- Topic 6E: Troubleshoot Software Deployment

MSi Software Learning Centers ■ MSi Networking Services ■ MSi Database Services

Divisions of Moore Solutions Inc

Visit Our Web Site [www. mooresolutions.com](http://www.mooresolutions.com)



Software Learning Centers
1645 SE. Port St. Lucie Blvd
Port St. Lucie, Florida 34952
PHONE: 772.337.4005 FAX: 772.337.0870



Commission for
Independent Education
Florida Department of Education

A Division of Moore Solutions inc.

Topic 6F: Plan a Software Deployment Strategy

Lesson 7: Implementing Sites to Manage Active Directory Replication

Topic 7A: Introduction to Active Directory Replication
Topic 7B: Create and Configure Sites
Topic 7C: Manage Site Topology
Topic 7D: Troubleshoot Replication Failures
Topic 7E: Plan a Site

Lesson 8: Implementing the Placement of Domain Controllers

Topic 8A: Implement the Global Catalog in Active Directory
Topic 8B: Determine the Placement of Domain Controllers in Active Directory
Topic 8C: Plan the Placement of Domain Controllers

Lesson 9: Managing Operations Masters

Topic 9A: Introduction to Operations Master Roles
Topic 9B: Transfer and Seize Operations Master Roles
Topic 9C: Plan the Placement of Operations Masters

Lesson 10: Maintaining Active Directory

Topic 10A: Introduction to Maintaining Active Directory
Topic 10B: Move and Defragment the Active Directory Database
Topic 10C: Back Up Active Directory
Topic 10D: Restore Active Directory
Topic 10E: Plan for Monitoring Active Directory

Appendix A: Manual Course Setup

MSi Software Learning Centers ■ MSi Networking Services ■ MSi Database Services

Divisions of Moore Solutions Inc

Visit Our Web Site [www. mooresolutions.com](http://www.mooresolutions.com)