



COMPUTER TRAINING

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WINDOWS

Course No. 2282

5 Days

Target Audience:

This course provides students with the knowledge and skills to design a Microsoft Active Directory directory service and network infrastructure for a Microsoft Windows Server 2003 environment. The course is intended for systems engineers who are responsible for designing directory service and/or network infrastructures.

Pre-requisites:

- Before attending this course, students should have the following pre-requisites:
- Completion of Course 2278, Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
 - Completion of Course 2279, Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure
 - OR equivalent knowledge and experience.

Purpose:

After completing this course, students will be able to describe the process of designing an Active Directory infrastructure and a network infrastructure that supports Active Directory; design a forest and domain infrastructure; design a site infrastructure; design a Group Policy structure; design an administrative structure; design a physical network structure that supports Active Directory; design a Dynamic Host Configuration Protocol (DHCP) structure that supports Active Directory; create a design for network connectivity that supports Active Directory; design a name resolution strategy that supports Active Directory; design a network access infrastructure that supports Active Directory.



Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure

At the end of the course the delegate will be able to complete the following:

Introduction to Designing an Active Directory and Network Infrastructure

- Introduction to general design principles
- Designing a Windows Server 2003 Active Directory infrastructure.

Skills:

- Explain basic design principles.
- Describe the process of and the tasks involved in designing an Active Directory infrastructure.

Designing a Forest and Domain Infrastructure

- Major design decisions when creating an Active Directory and network infrastructure.
- The Active Directory logical structure
- Design of forests and domains
- Design a migration solution from the existing structure to the new design.

Skills:

- Gather and analyze the information that you need to design a forest and domain infrastructure.
- Create a logical forest design.
- Create a domain design.
- Design a DNS namespace strategy for forests and domains.
- Create a trust strategy for forests.
- Determine a migration plan for the existing infrastructure.
- Design a schema management policy.

Designing a Site Infrastructure

- Design a site topology
- Optimize the exchange of data
- Optimize directory information.

Skills:

- Determine the information needed to design a site infrastructure.
- Create a site design.
- Modify the site design for replication.
- Determine the placement of domain controllers in the site design.
- Determine the placement of global catalog servers in the site design.
- Determine the placement of single operations masters in the site design.

Designing the Administrative Structure

- Design an administrative structure
- Design an organizational unit structure.

Skills:

- Determine the information needed to design an administrative structure.
- Design a network administration model.
- Design an organizational unit structure.
- Design an account strategy.

Designing for Group Policy

- Gather and analyze business requirements
- Design a Group Policy structure
- Integrate Group Policy structure into an organizational unit design
- Group Policy in the Active Directory infrastructure
- Design a change management structure.

Skills:

- Determine the information needed to design for Group Policy.
- Design a Group Policy structure.
- Create an organization unit (OU) structure for Group Policy.
- Create a Group Policy management design.

Designing the Physical Network

- Design the physical network.
- Design a connectivity infrastructure
- Design a domain controller structure
- Use the Active Directory Sizer tool.
- Design a change management structure for networking, including monitoring.
- Create a physical network according to a scenario.

Skills:

- Explain the preparation necessary to design a network infrastructure.
- Create an IP addressing scheme.
- Design a DHCP infrastructure.
- Design a change management structure for networking.

Designing for Network Connectivity

- Design networking services for connectivity and protocol requirements
- Describe networking solutions.

Skills:

- Determine the information that you need to design for network connectivity.
- Evaluate connection types.
- Design a connectivity infrastructure.
- Create a design for Internet connectivity.

Designing a Name Resolution Strategy

- Describe the relationship between Active Directory and DNS domain names, Windows Internet Name Service (WINS), and other name-resolution strategies.

Skills:

- Determine the information needed to design a name-resolution strategy.
- Design a strategy for interoperability with Active Directory, BIND, WINS, and DHCP.
- Design a WINS replication strategy.
- Design a name resolution strategy for clients.

Designing the Network Access Infrastructure

- Design a network access infrastructure
- Strategies for authentication, administration, access monitoring, interoperability, and user education.

Skills:

- Gather data for network access design.
- Design network access security.
- Choose remote access methods.
- Design a remote access infrastructure.
- Design a wireless access infrastructure.



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Platform:

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