

## Course Outline

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### 2282- Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure



**Duration:** 5 days (30 hours)

#### Learning Objectives:

- Describe the process of designing an Active Directory infrastructure and a network infrastructure that supports Active Directory
- Design a forest and domain infrastructure that meets the needs of an organization
- Design a site infrastructure that meets the needs of an organization
- Design a Group Policy structure that meets the needs of an organization
- Design an administrative structure that meets the needs of an organization
- Design a physical network structure that supports Active Directory and meets the needs of an organization
- Design a Dynamic Host Configuration Protocol (DHCP) structure that supports Active Directory and meets the needs of an organization
- Create a design for network connectivity that supports Active Directory and meets the needs of an organization
- Design a name resolution strategy that supports Active Directory and meets the needs of an organization
- Design a network access infrastructure that supports Active Directory and meets the needs of an organization

#### Target Audience:

This course is intended for individuals who are employed as or seeking employment as a systems engineer in a Windows Server 2003-based environment

#### Prerequisites:

- They have taken [Course 2278](#), Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure and [Course 2279](#), Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure

Or:

- They have equivalent knowledge and experience

#### Topics Covered:

- Introduction to designing an Active directory and network infrastructure
  - Explain basic design principles
  - Describe the process of and the tasks involved in designing an Active Directory infrastructure
- Designing a Forest and Domain infrastructure
  - 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
  - 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
  - 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
  - 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
  - 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
  - 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
  - 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
- Implementing the Placement of domain controllers
  - Implementing the Global Catalog in Active Directory
  - Determining the Placement of Domain Controllers in Active Directory
  - Planning the Placement of Domain Controllers
- Designing the Network Access infrastructure
  - Gather data for network access design
  - Design network access security
  - Choose remote access methods
  - Design a remote access infrastructure
  - Design a wireless access infrastructure