

# Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure

## Course Summary

### Description

This instructor-led course provides students with the knowledge and skills to successfully plan, implement, and troubleshoot a Microsoft Windows Server 2003 Active Directory directory service infrastructure. 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.

### Objectives

At the completion of this course, the student will be able to:

- Describe the logical and physical components of Active Directory
- Create and configure a forest and domain structure using an Active Directory infrastructure design
- Plan and implement an organizational unit structure
- Plan and implement Active Directory user, group, and computer accounts
- Plan and implement a Group Policy strategy to centrally manage users and computers in an enterprise
- Deploy, manage, and troubleshoot software that is deployed using Group Policy
- Implement sites to manage and monitor Active Directory replication
- Plan and manage operations masters
- Back up, restore, and maintain Active Directory

### Topics

- Introduction to Active Directory Infrastructure
- Implementing an Active Directory Forest and Domain Structure
- Implementing an Organizational Unit Structure
- Implementing User, Group, and Computer Accounts
- Implementing Group Policy
- Deploying and Managing Software by Using Group Policy
- Implementing Sites to Manage Active Directory Replication
- Implementing the Placement of Domain Controllers
- Managing Operations Masters
- Maintaining Active Directory Availability
- Planning and Implementing an Active Directory Infrastructure

### Audience

This course is appropriate for individuals who are employed or seeking a position as a systems engineer. This course is also appropriate for individuals who currently support a competitive platform who want to enhance their skills using Windows Server 2003 Active Directory

### Prerequisites

Before attending this course, students must have completed a Planning and Maintaining a Windows Server 2003 Network Infrastructure course.

**Duration**

Five days

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## Course Outline

- I. Introduction to Active Directory Infrastructure**
  - A. The architecture of Active Directory
  - B. How Active Directory works
  - C. Examining Active Directory
  - D. The Active Directory design, planning, and implementation processes
  
- II. Implementing an Active Directory Forest and Domain Structure**
  - A. Creating a forest and domain structure
  - B. Examining and configuring Active Directory integrated DNS
  - C. Raising forest and domain functional levels
  - D. Creating trust relationships
  
- III. Implementing an Organizational Unit Structure**
  - A. Creating and managing organizational units
  - B. Delegating administrative control for organizational units
  - C. Planning an organizational unit strategy
  
- IV. Implementing User, Group, and Computer Accounts**
  - A. Introduction to accounts
  - B. Creating and managing multiple accounts
  - C. Implementing user principal name suffixes
  - D. Moving objects in Active Directory
  - E. Planning an account strategy
  - F. Planning an Active Directory audit strategy
  
- V. Implementing Group Policy**
  - A. Creating and configuring Group Policy Objects (GPOs)
  - B. Configuring Group Policy Refresh Rates and Group Policy Settings
  - C. Managing GPOs
  - D. Verifying and troubleshooting Group Policy
  - E. Delegating administrative control of Group Policy
  - F. Planning a Group Policy strategy for the Enterprise
  
- VI. Deploying and Managing Software by Using Group Policy**
  - A. Introduction to managing software deployment
  - B. Deploying software
  - C. Configuring software deployment
  - D. Maintaining deployed software
  - E. Troubleshooting software deployment
  - F. Planning a software deployment strategy

## **Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure**

### **Course Outline (cont'd)**

#### **VII. Implementing Sites to Manage Active Directory Replication**

- A. Introduction to Active Directory replication
- B. Creating and configuring sites
- C. Managing site topology
- D. Troubleshooting replication failures
- E. Planning a site

#### **VIII. Implementing the Placement of Domain Controllers**

- A. Implementing the global catalog in Active Directory
- B. Determining the placement of domain controllers in Active Directory
- C. Planning the placement of domain controllers

#### **IX. Managing Operations Masters**

- A. Introduction to operations master roles
- B. Transferring and seizing operations master roles
- C. Planning the placement of operations masters

#### **X. Maintaining Active Directory Availability**

- A. Introduction to maintaining Active Directory
- B. Moving and defragmenting an Active Directory database
- C. Backing up Active Directory
- D. Restoring Active Directory
- E. Planning for monitoring Active Directory

#### **XI. Planning and Implementing an Active Directory Infrastructure**

- A. Creating an Active Directory implementation plan for Knowledge Trust Inc.
- B. Implementing the Active Directory infrastructure for Knowledge Trust Inc.