

Course Details

Course 20413A:

Length: 5 Days

Published: September 21, 2012

Language(s): English

Audience(s): IT Professionals

Level: 300

Technology: Windows Server 2012

Type: Course

Delivery Method: Instructor-led (classroom)

Prerequisites

Before attending this course, students must have:

- A good understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) fundamentals and networking concepts.
- A good working knowledge of both Windows Server 2012 and Active Directory Domain Services (AD DS). For example, domain user accounts, domain vs. local user accounts, user profiles, and group membership.
- A good understanding of both scripts and batch files.
- A solid understanding of security concepts, such as authentication and authorization.
- Familiarity with deployment, packaging, and imaging tools.
- Ability to work in a team/virtual team.
- Ability to produce good documentation and have the appropriate communication skills to create proposals and make budget recommendations.
- Knowledge equivalent to Windows 2012 MCSA.

Course Outline

Module 1: Planning Server Upgrade and Migration

- Upgrade and Migration Considerations
- Creating a Server Upgrade and Migration Plan
- Planning for Virtualization

Module 2: Planning and Implementing a Server Deployment Infrastructure

- Selecting an Appropriate Server Imaging Strategy
- Selecting a Deployment Automation Strategy
- Implementing an Automated Deployment Strategy

Module 3: Designing and Maintaining an IP Configuration and Address Management Solution

- Designing and Implementing DHCP
- Planning and Implementing DHCP Scopes
- Planning and Implementing an IPAM Provisioning Strategy

Module 4: Designing and Implementing Name Resolution

- Designing a DNS Server Implementation Strategy
- Designing the DNS Namespace
- Designing and Implementing DNS Zones
- Designing and Configuring DNS Zone Replication and Delegation
- Optimizing DNS Servers Designing DNS for High Availability and Security

Module 5: Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure

- Designing an AD DS Forest
- Designing and Implementing AD DS Forest Trusts
- Designing and Implementing AD DS Domains
- Designing DNS Namespaces in AD DS Environments
- Designing AD DS Domain Trusts

Module 7: Designing and Implementing a Group Policy Object Strategy

- Gathering the Information Required for a GPO Design
- Designing and Implementing GPOs
- Designing GPO Processing
- Planning Group Policy Management

Module 9: Planning and Implementing Storage

- Storage Considerations
- Planning and Implementing iSCSI SANs

Module 11: Designing and Implementing Network Access Services

- Designing and Implementing Remote Access Services
- Designing RADIUS Authentication by Using a Network Policy Server
- Designing a Perimeter Network
- Planning and Implementing DirectAccess

Module 6: Designing and Implementing an OU Infrastructure and AD DS Permissions Model

- Planning the AD DS Administrative Tasks
- Delegation Model
- Designing the OU Structure
- Designing and Implementing an AD DS Group Strategy

Module 8: Designing and Implementing an AD DS Physical Topology

- Designing and Implementing AD DS Sites
- Designing AD DS Replication
- Designing the Placement of Domain Controllers
- Virtualization Considerations for Domain Controllers
- Designing Highly-Available Domain Controllers

Module 10: Planning and Implementing File Services

- Planning and Implementing a Distributed File System
- Planning and Implementing BranchCache
- Planning and Implementing Dynamic Access Control

Module 12: Designing and Implementing Network Protection

- Overview of Network Security Design
- Identifying and Mitigating Common Network Security Threats
- Designing and Implementing a Windows Firewall Strategy
- Designing and Implementing a Network Access Protection Infrastructure