

20413: Designing and Implementing a Server Infrastructure (Windows Server 2012)

Course Details

Course Outline

- 1. Module 1: Planning Server Upgrade and Migration**
 - Upgrade and Migration Considerations
 - Creating a Server Upgrade and Migration Plan
 - Planning for Virtualization
- 2. 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
- 3. 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
- 4. 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
- 5. 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

6. 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

7. 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

8. 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

9. Module 9: Planning and Implementing Storage

- Storage Considerations
- Planning and Implementing iSCSI SANs

10. Module 10: Planning and Implementing File Services

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

11. 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

12. 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