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# DESIGNING AND IMPLEMENTING A SERVER INFRASTRUCTURE – EXAM 70-413

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This hands-on course provides students with knowledge and develops their skills to get experience necessary to design and implement a Server Infrastructure.

During this course we will cover the knowledge and skills you will need to provide an enterprise solution that supports manual and automated server installations in a physical and virtual environment including the supporting file and storage services.

This course is part four of five towards your MCSE: Windows Server Infrastructure credential.

NOTE: This course is designed for experienced IT professionals who are MCSA: Windows Server 2012 certified.

## COURSE OUTLINE:

### **Planning Server Upgrade and Migration**

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

### **Planning and Implementing a Server Deployment Strategy**

- Selecting an Appropriate Server Deployment Strategy
- Implementing an Automated Deployment Strategy
- Preparing the Windows Server 2012 R2 Image
- Deploying Windows Server 2012 R2

### **Planning and Deploying Servers Using Virtual Machine Manager**

- System Center 2012 R2 Virtual Machine Manager Overview
- Implementing a Virtual Machine Manager Library and Profiles
- Planning and Deploying Virtual Machine Manager Services

### **Designing and Maintaining an IP Configuration and Address Management Solution**

- Designing DHCP Servers



- Planning DHCP Scopes
- Designing an IPAM Provisioning Strategy
- Managing Servers and Address Spaces by Using IPAM

### **Designing and Implementing Name Resolution**

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

### **Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure**

- Designing an Active Directory Forest
- Designing and Implementing Active Directory Forest Trusts
- Designing Active Directory Integration with Windows Azure Active Directory
- Designing and Implementing Active Directory Domains
- Designing DNS Namespaces in Active Directory Environments
- Designing Active Directory Domain Trusts

### **Designing and Implementing an AD DS Organizational Unit Infrastructure**

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

### **Designing and Implementing a Group Policy Object Strategy**

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

### **Designing and Implementing an AD DS Physical Topology**

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



## **Planning and Implementing Storage and File Services**

- Planning and Implementing iSCSI SANs
- Planning and Implementing Storage Spaces
- Optimizing File Services for Branch Offices

## **Designing and Implementing Network Protection**

- Overview of Network Security Design
- Designing and Implementing a Windows Firewall Strategy
- Designing and Implementing a NAP Infrastructure

## **Designing and Implementing Remote Access Services**

- Planning and Implementing DirectAccess
- Planning and Implementing VPN
- Planning and Implementing Web Application Proxy
- Planning a Complex Remote Access Infrastructure