

# OD10967A: Fundamentals of a Windows Server Infrastructure

## Windows Server 2012 MOD

### Course Details

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#### Course Outline

##### 1. Installing and Configuring Windows Server 2012

- Windows Server Architecture.
- Installing Windows Server.
- Configuring Services.
- Configuring Devices and Device Drivers.
- Lab : Installing and Configuring Windows Server 2012

##### 2. Implementing Storage in Windows Server

- Identifying Storage Technologies.
- Managing Disks and Volumes.
- Fault Tolerance.
- Lab : Implementing Storage in Windows Server

##### 3. Understanding Network Infrastructure

- Network Architecture Standards.
- Local Area Networking.
- Wide Area Networking.
- Wireless Networking.
- Connecting to the Internet.
- Remote Access.
- Lab : Selecting Network Infrastructure Components

##### 4. Connecting Network Components

- Understanding the OSI Model.
- Understanding Media Types.
- Understanding Adapters, Hubs, and Switches.
- Understanding Routing.
- Lab : Connecting Network Components

##### 5. Implementing TCP/IP

- Overview of TCP/IP.
- IPv4 Addressing.

- IPv6 Addressing.
- Name Resolution.
- Lab : Implementing TCP/IP

## **6. Implementing Windows Server Roles**

- Role-Based Deployment.
- Deploying Role-Specific Services.
- Considerations for Provisioning Roles.
- Lab : Implementing Server Roles
- Lab : Implementing Server Roles

## **7. Implementing Active Directory**

- Introducing Active Directory Domain Services (AD DS).
- Implementing AD DS.
- Managing Users, Groups, and Computers.
- Implementing Group Policy
- Lab : Implementing AD DS

## **8. Implementing IT Security Layers**

- Overview of Defense-in-Depth.
- Physical Security.
- Internet Security.
- Lab : Implementing IT Security Layers

## **9. Implementing Security in Windows Server**

- Overview of Windows Security.
- Securing Files and Folders.
- Implementing Encryption.
- Lab : Implementing Windows Security

## **10. Implementing Network Security**

- Overview of Network Security.
- Implementing Firewalls.
- Internet Protocol Security (IPsec)
- Lab : Implementing Network Security

## **11. Implementing Security Software**

- Client Software Protection Features.
- E-Mail Protection.
- Server Protection.

- Lab : Implementing Security Software

## **12. Monitoring Server Performance**

- Event Logging.
- Performance Monitoring.
- Lab : Monitoring Server Performance

## **13. Maintaining Windows Server**

- Troubleshooting Windows Server Startup.
- Server Availability and Data Recovery.
- Applying Updates to Windows Server.
- Troubleshooting Windows Server.
- Lab : Maintaining Windows Server