10967: Fundamentals of a Windows Server Infrastructure (Windows Server 2012)

Course Details

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