

10967AC	Fundamentals of a Windows Server Infrastructure	5 DAYS	SATV : YES
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Course Description

Learn about the Fundamental building blocks that go into building a Windows Server infrastructure with Windows Server 2012. This five day course covers the basic skills and knowledge that are required in order to build a Windows Server Infrastructure. It covers networking architecture and topologies, security considerations and best practices as well as basic Windows Server administration skills and technologies such as Windows Server 2012 Installation, configuration, maintenance and performance. Within that it will also cover specific areas such as Active Directory Domain Services (AD DS), Domain Name Services (DNS), Storage and many others. This course is designed to provide foundational level knowledge needed to prepare students to start a career or cross train in Microsoft Windows Server technologies.

Course Outline :

Module 1: Installing and Configuring Windows Server 2012

- Windows Server Architecture
- Installing Windows Server
- Configuring Services
- Configuring Devices and Device Drivers

Module 2: Implementing Storage in Windows Server

- Identifying Storage Technologies
- Managing Disks and Volumes
- Fault Tolerance

Module 3: Understanding Network Infrastructure

- Network Architecture Standards
- Local Area Networking
- Wide Area Networking
- Wireless Networking
- Connecting to the Internet
- Remote Access

Module 4: Connecting Network Components

- Understanding the OSI Model
- Understanding Media Types
- Understanding Adapters, Hubs, and Switches
- Understanding Routing

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Module 5: Implementing TCP/IP

- Overview of TCP/IP
- IPv4 Addressing
- IPv6 Addressing
- Name Resolution

Module 6: Implementing Windows Server Roles

- Role-Based Deployment
- Deploying Role-Specific Services
- Considerations for Provisioning Roles

Module 7: Implementing Active Directory

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

Module 8: Implementing IT Security Layers

- Overview of Defense-in-Depth
- Physical Security
- Internet Security

Module 9: Implementing Security in Windows Server

- Overview of Windows Security
- Securing Files and Folders
- Implementing Encryption

Module 10: Implementing Network Security

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

Module 11: Implementing Security Software

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

Module 12: Monitoring Server Performance

- Event Logging
- Performance Monitoring

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Module 13: Maintaining Windows Server

- Troubleshooting Windows Server Startup
- Server Availability and Data Recovery
- Applying Updates to Windows Server
- Troubleshooting Windows Server