

20741

**Networking with
Windows Server 2016**

5 DAYS

This 5-day classroom-based course provides the fundamental networking skills required to deploy and support Windows Server 2016 in most organizations. It covers IP fundamentals, remote access technologies, and more advanced content including Software Defined Networking.

Module 1: Planning and implementing an IPv4 network

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity

Module 2: Implementing DHCP

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP

Module 3: Implementing IPv6

- Overview of IPv6 addressing
- Configuring an IPv6 host
- Implementing IPv6 and IPv4 coexistence
- Transitioning from IPv4 to IPv6

Module 4: Implementing DNS

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings

Module 5: Implementing and managing IPAM

- Overview of IPAM
- Deploying IPAM
- Managing IP address spaces by using IPAM

Module 6: Remote access in Windows Server 2016

- Overview of remote access
- Implementing the Web Application Proxy

Module 7: Implementing DirectAccess

Overview of DirectAccess

Implementing DirectAccess by using the Getting Started Wizard

Implementing and managing an advanced DirectAccess infrastructure

Module 8: Implementing VPNs

Planning VPNs

Implementing VPNs

Module 9: Implementing networking for branch offices

Networking features and considerations for branch offices

Implementing Distributed File System (DFS) for branch offices

Implementing BranchCache for branch offices

Module 10: Configuring advanced networking features

Overview of high performance networking features

Configuring advanced Microsoft Hyper-V networking features

Module 11: Implementing Software Defined Networking

Overview of SDN.

Implementing network virtualization

Implementing Network Controller