

## #20743: UPGRADING YOUR SKILLS TO MCSA: WINDOWS SERVER 2016

Available Dates: **Call for Dates**

Class Length: **5 day**

Cost: **\$2,795**

[Email Computer Visions about this class](#)

### **Class Outline:**

#### Description:

This five-day, instructor-led course explains how to implement and configure new Windows Server 2016 features and functionality. This course is for information technology (IT) professionals who want to upgrade their technical skills from Windows Server 2008 or Windows Server 2012 to Windows Server 2016. This course presumes a high level of knowledge about previous Windows Server technologies and skills equivalent to the Microsoft Certified Solutions Associate (MCSA): Windows Server 2008 or Windows Server 2012 credential.

#### Course Outline:

##### Module 1: Installing and configuring Windows Server 2016

This module explains how to install and perform post-installation configuration of Windows Server 2016 servers.

#### Lessons

- Introducing Windows Server 2016
- Installing Windows Server 2016
- Configuring Windows Server 2016
- Preparing for upgrades and migrations
- Migrating server roles and workloads
- Windows Server activation models

##### Module 2: Overview of storage in Windows Server 2016

This module explains how to configure storage in Windows Server 2016.

#### Lessons

- Overview of storage in Windows Server 2016
- Implementing Data Deduplication
- Configuring iSCSI storage
- Configuring the Storage Spaces feature in Windows Server 2016

##### Module 3: Implementing directory services

This module explains how to implement the Directory Services feature.

#### Lessons

- Deploying Active Directory domain controllers
- Implementing service accounts
- Azure AD

##### Module 4: Implementing AD FS

This module explains how to implement an AD FS deployment.

#### Lessons

- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a single organization
- Implementing Web Application Proxy

##### Module 5: Implementing network services

This module explains how to configure advanced features for Dynamic Host Configuration Protocol (DHCP) and configure IP Address Management (IPAM).

#### Lessons

- Overview of networking enhancements
- Implementing IPAM
- Managing IP address spaces with IPAM

#### Module 6: Implementing Hyper-V

This module explains how to install and configure Hyper-V virtual machines.

#### Lessons

- Configuring the Hyper-V role in Windows Server 2016
- Configuring Hyper-V storage
- Configuring Hyper-V networking
- Configuring Hyper-V virtual machines

#### Module 7: Configuring advanced networking features

This module explains how to implement an advanced networking infrastructure.

#### Lessons

- Overview of high-performance networking features
- Configuring advanced Hyper-V networking features

#### Module 8: Implementing Software Defined Networking

This module explains how to implement software-defined networking.

#### Lessons

- Overview of SDN
- Implementing network virtualization
- Implementing Network Controller

#### Module 9: Implementing remote access

This module explains how to configure connectivity for remote users by using the DirectAccess feature.

#### Lessons

- Remote access overview
- Implementing DirectAccess
- Implementing VPN

#### Module 10: Deploying and managing Windows and Hyper-V containers

This module provides an overview of Windows Server 2016 containers. Additionally, it explains how to deploy, install, configure, and manage containers in Windows Server 2016.

#### Lessons

- Overview of containers in Windows Server 2016
- Preparing to deploy containers
- Installing, configuring, and managing containers by using Docker

#### Module 11: Implementing failover clustering

This module explains how to implement failover clustering to provide high availability for network services and applications.

#### Lessons

- Overview of failover clustering
- Implementing a failover cluster
- Configuring highly-available applications and services on a failover cluster
- Maintaining a failover cluster
- Implementing a stretch cluster

## Module 12: Implementing failover clustering with Windows Server 2016 Hyper-V

This module explains how to deploy and manage Hyper-V virtual machines in a failover cluster.

### Lessons

- Overview of the integration of Hyper-V Server 2016 with failover clustering
- Implementing Hyper-V virtual machines on failover clusters
- Implementing Windows Server 2016 Hyper-V virtual machine migration
- Implementing Hyper-V Replica