

# **Installing and Configuring Windows 10 - MOC On Demand (MS-20698)**

**Modality: On Demand**

**Duration: 2 Days**

**SATV Value: 2**

## **About this course:**

*This course is Microsoft Official On-Demand course accessible for 90 days from the date of course request, if you have annual subscription, or course purchase individually. Course access will expire after 90 days of course enrollment.*

This course provides IT professionals with the knowledge and skills required to install and configure Windows 10 desktops in a Windows Server small to medium-sized AD DS domain environment. These skills include learning how to install and customize Windows 10 operating systems and apps, configure local and remote network connectivity, and configure local and online storage.

Students also will learn how to configure security in addition to how to maintain, update, and recover Windows 10. This course also helps the students in the preparation for [Microsoft 70-698: Installing and Configuring Windows 10 certification exam](#).

The average salary for IT professional is **\$97,895** per year.

## **Course Objective:**

After completing this course, students will be able to:

- Plan, install, and upgrade to Windows 10.
- Perform post-installation configuration.
- Implement networking.
- Implement network security.
- Manage Windows 10 with Group Policy.
- Implement remote management.
- Manage local storage.
- Manage files and resources.
- Install and manage apps.
- Secure Windows 10.
- Implement remote connectivity.
- Maintain and update Windows 10.
- Recover and troubleshoot Windows 10.

## **Audience:**

This course is intended for:

- IT professionals who administer and support Windows 10 desktops and devices in small to medium-sized networks.
- The networks with which these professionals typically work are configured as AD DS domain-based environments with managed access to the Internet and cloud services.

## Prerequisites:

Before attending this course, students must have:

- Experience deploying and configuring Windows 8, Windows 8.1, or Windows 10.
- Experience deploying and configuring Windows Server 2012 or Windows Server 2016 Active Directory Domain Services (AD DS).
- Experience deploying and configuring network services, including DNS, in Windows Server 2012 or Windows Server 2016.
- Windows Client essentials, such as a working knowledge of Windows 8.1, Windows 8, or Windows 7.

## Course Outline:

### Module 1: Installing Windows 10

This module describes the features of Windows 10 and the process for installing and deploying it. The module also describes how to upgrade to Windows 10, perform post-installation maintenance tasks, and manage volume activation.

#### Lessons

- Overview of Windows 10
- Planning your Windows 10 deployment
- Installing and deploying Windows 10
- Upgrading to Windows 10
- Windows 10 installation maintenance
- Managing volume activation

### Lab : Upgrading to Windows 10

- Upgrading Windows 8.1 to Windows 10
- Migrating user settings

### Lab : Maintaining a Windows 10 installation with Windows ICD

- Create and configure a Windows Imaging and Configuration Designer (Windows ICD) provisioning package
- Migrating user settings

After completing this module, students will be able to:

- Describe Windows 10 features.

- Plan your Windows 10 deployment.
- Describe how to install and deploy Windows 10.
- Describe how to upgrade to Windows 10.
- Describe the Windows 10 post-installation maintenance tasks.
- Manage volume activation.

## **Module 2: Performing post-installation configuration**

This module provides an overview of the management tools in Windows 10. It describes how to customize the user interface, manage devices, drivers, and services, and configure several other features. The module also provides an overview of Client Hyper-V.

### **Lessons**

- Overview of management tools
- Customizing the user interface
- Managing devices, device drivers, and services
- Configuring features, mobility, and power options
- Overview of Client Hyper-V

### **Lab : Managing devices**

- Installing a device driver into the store

### **Lab : Configuring features, mobility, and power options**

- Turning on Windows features with Control Panel
- Adding Windows features with Windows PowerShell

After completing this module, students will be able to:

- Describe the management tools available in Windows 10.
- Describe how to customize the user interface.
- Manage devices, device drivers, and services.
- Configure features, mobility, and power options.
- Describe the features of Client Hyper-V.

## **Module 3: Implementing networking**

This module describes the homegroups, workgroups, and domains feature in Windows 10. It also describes how to configure IPv4 and IPv6 network connectivity, and how to implement name resolution. Additionally, the module describes how to troubleshoot network connectivity and implement wireless network connectivity.

### **Lessons**

- Homegroups, workgroups, and domains
- Configuring IPv4 network connectivity

- Configuring IPv6 network connectivity
- Implementing name resolution
- Troubleshooting network connectivity
- Implementing wireless network connectivity

### **Lab : Implementing network connections**

- Configuring IPv4 manually
- Configuring automatic IPv4 addressing
- Configuring Domain Name System (DNS) Settings
- Testing name resolution

### **Lab : Troubleshooting network connections**

- Resolving a network problem (1)
- Resolving a network problem (2)

After completing this module, students will be able to:

- Describe the homegroups, workgroups, and domains features in Windows 10.
- Configure IPv4 network connectivity.
- Configure IPv6 network connectivity.
- Implement name resolution.
- Troubleshoot network connectivity.
- Implement wireless network connectivity.

## **Module 4: Implementing network security**

This module describes how to implement network security by using the Windows 10 features such as Windows Firewall, connection security rules, and Windows Defender.

### **Lessons**

- Implementing Windows Firewall
- Connection security rules
- Implementing Windows Defender

### **Lab : Implementing network security**

- Creating and testing inbound rules
- Creating and testing outbound rules
- Creating and testing connection security rules
- Configuring Windows Defender

After completing this module, students will be able to:

- Implement Windows Firewall.
- Describe how to use connection security rules

- Implement Windows Defender.

## **Module 5: Managing Windows 10 with Group Policy**

This module describes how to implement the Group Policy feature in Windows 10. The module also explains how you can configure Windows 10 devices by using Group Policy Objects (GPOs).

### **Lessons**

- Overview of Group Policy
- Configuring Windows 10 devices with GPOs

### **Lab : Implementing management with Group Policy Objects (GPOs)**

- Managing Windows 10 by using Group Policy

After completing this module, students will be able to:

- Explain what is Group Policy.
- Configure Windows 10 devices with GPOs.

## **Module 6: Implementing remote management**

This module describes how to implement remote management by using Windows 10 features such as Remote Desktop, Remote Assistance, and remoting with Windows PowerShell.

### **Lessons**

- Remote Desktop
- Remote Assistance
- Using Windows PowerShell Remoting

### **Lab : Implementing remote management**

- Using Remote Desktop
- Using Remote Assistance
- Remoting with Windows PowerShell

After completing this module, students will be able to:

- Describe the Remote Desktop feature.
- Describe the Remote Assistance feature.
- Describe how to use remoting with Windows PowerShell.

## **Module 7: Managing storage**

This module describes how to manage storage in Windows 10 devices by using the available storage options. It also explains how to manage and maintain disks, partitions, and volumes. The modules

then describes how you can use the Storage Spaces feature, Microsoft OneDrive, and virtual hard disks to manage storage.

## Lessons

- Overview of storage options
- Managing disks, partitions, and volumes
- Maintaining disks and volumes
- Implementing Storage Spaces
- Implementing and managing OneDrive
- Working with virtual hard disks

### Lab : Implementing storage

- Adding a disk
- Creating a simple volume
- Creating a storage space

After completing this module, students will be able to:

- Describe the storage options available in Windows 10.
- Manage disks, partitions, and volumes.
- Maintain disks and volumes.
- Implement Storage Spaces.
- Implement and manage OneDrive.
- Describe how to work with virtual hard disks.

## Module 8: Managing files and resources

This module describes how to manage files and resources in Windows 10. The module starts by providing an overview of file systems and how file access works. The module then describes shared folders and Work Folders features. Finally, it describes how to manage printers.

## Lessons

- Overview of file systems
- Configuring and managing file access
- Managing shared folders
- Implementing Work Folders
- Managing printers

### Lab : Creating, securing, and sharing a folder

- Creating and securing a data folder
- Sharing the data folder

### Lab : Creating, securing, and sharing a folder

- Configuring Work Folders

## **Lab : Creating, securing, and sharing a folder**

- Installing and sharing a printer

After completing this module, students will be able to:

- Describe the available file systems.
- Describe how to configure and manage file access.
- Manage shared folders.
- Implement Work Folders.
- Manage printers.

## **Module 9: Deploying and managing apps**

This module describes the various methods available to deploy and manage apps in Windows 10. The module provides an overview of the Windows Store and Windows Store for Business, and describes other options such as desktop apps and web browsers.

### **Lessons**

- Overview of methods used to deploy apps
- The Windows Store and Windows Store for Business
- Desktop Apps
- Web browsers

## **Lab : Deploying and managing Windows Store apps**

- Controlling access to the Windows Store
- Sideloaded an app

## **Lab : Deploying apps with Windows Imaging and Configuration Designer (Windows ICD)**

- Creating a provisioning package
- Deploying a provisioning package
- Verifying deployment

## **Lab : Configuring web browsers**

- Configuring web browsers

After completing this module, students will be able to:

- Describe the methods that you can use to deploy apps.
- Describe the features of the Windows Store and Windows Store for Business.
- Explain the options for deploying desktop apps.
- Explain the features of Windows 10 web browsers.

## Module 10: Securing Windows 10

This module describes how to implement security in Windows 10 devices. It also describes how to manage user accounts and their permissions by using the User Account Control (UAC) feature. Additionally, the module explains how to implement and manage BitLocker Drive Encryption.

### Lessons

- Managing user accounts
- Configuring UAC
- Implementing and Managing BitLocker

### Lab : Configuring user accounts

- Managing user accounts
- Configuring User Account Control (UAC)

### Lab : Implementing BitLocker

- Using BitLocker Drive Encryption

After completing this module, students will be able to:

- Describe how to manage user accounts.
- Configure UAC.
- Implement and manage BitLocker.

## Module 11: Implementing remote connectivity

This module describes how to implement remote connectivity by using the available options, including virtual private networks (VPNs) and DirectAccess.

### Lessons

- Overview of remote connectivity options
- Implementing VPNs
- Implementing DirectAccess

### Lab : Implementing a VPN

- Deploying a virtual private network (VPN) server
- Verifying Network Policy Server (NPS) policies
- Creating a VPN connection

After completing this module, students will be able to:

- Describe the remote connectivity options.
- Explain how to implement VPNs.



- Describe how to implement DirectAccess.

## **Module 12: Maintaining Windows 10**

This module describes how maintain a Windows 10 environment by updating and monitoring the Windows 10 operating system. The module describes the Windows Update settings and how to use the Windows Server Update Services (WSUS), Microsoft System Center Configuration Manager, and Microsoft Intune to regularly update Windows 10. The module then explains how to monitor Windows 10 by using tools such as the Notifications & actions settings, Event Viewer, and Windows Performance Monitor.

### **Lessons**

- Updating Windows 10
- Monitoring Windows 10

### **Lab : Maintaining Windows**

- Configuring updates for a single device
- Configuring updates with Group Policy Objects (GPOs)
- Configuring Notifications & action settings
- Monitoring events
- Monitoring reliability and performance

After completing this module, students will be able to:

- Describe how to update Windows 10.
- Describe how to monitor Windows 10.

## **Module 13: Recovering Windows 10**

This module describes the recovery options for Windows 10. It also explains how to recover lost files, manage devices and device drives, and perform system recovery.

### **Lessons**

- Recovering files
- Managing devices and device drivers
- Performing system recovery

### **Lab : Recovering Windows 10**

- Installing an updated device driver
- Rolling back the device driver
- Using File History to recover files
- Using Previous Versions to recover files
- Recovering a device with a restore point
- Using the advanced startup options to recover a device

After completing this module, students will be able to:

- Describe how to recover files in Windows 10.
- Manage devices and device drivers.
- Perform system recovery.