

MS20697-2 Deploying and Managing Windows 10 Using Enterprise Services

Duration: 5 Day(s)

Course Fee: \$2,895.00* Per Student.

*Microsoft SA Voucher Eligible. KnowledgeWave Learning Site & Government/Education Discounts Available.

Overview

About this course

This 5-day course provides administrators with the knowledge and skills needed to deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment.

Audience profile

This course is intended for IT Professionals who are interested in specializing in Windows 10 desktop and application deployments and managing the cloud-based application and data service environments for medium-to-large enterprise organizations. These professionals typically work with networks that are configured as Windows Server domain-based environments with managed access to the Internet and cloud services. This course is also intended to provide skills for individuals who seek to pass the 70-697 Windows 10 Configuring exam.

At course completion

After completing this course, students will be able to:

- Describe the challenges and solutions for desktop and device management in an enterprise environment.
- Deploy Windows 10 Enterprise desktops.
- Manage user profiles and user state virtualization.
- Manage Windows 10 sign-in and identity.
- Manage desktop and application settings by using Group Policy.
- Manage data access for Windows-based devices.
- Manage remote access solutions.
- Configure and manage client Hyper-V.
- Manage Windows 10 devices by using enterprise mobility solutions.
- Manage desktop and mobile clients by using Microsoft Intune.
- Manage updates and endpoint protection by using Microsoft Intune.
- Manage application and resource access by using Microsoft Intune.

Prerequisites

- 20697-1 Implementing and Managing Windows 10

Course Outline:

Module 1: Overview of Windows 10

This module introduces the Windows 10 operating system. It describes the new features in Windows 10, and the important changes since Windows 8.1. It describes the use, navigation, and customization of the new, enhanced user interface. This module also mentions the features of Windows 10 that make it beneficial for organizations of different sizes.

Lesson

- Introducing Windows 10
- Navigating the User Interface

Lab : Navigating and Customizing the User Interface

- Navigating Windows 10
- Configuring Start
- Configuring the Desktop

After completing this module, students will be able to:

- Describe the important new features of Windows 10.
- Navigate and customize the Windows 10 interface.

Module 2: Installing Windows 10

This module introduces the different editions of Windows 10, and the differences between them. It describes the requirements and available options for installing Windows 10 on a device. It also provides instructions on installing Windows 10 and upgrading to it. This module discusses points to consider when deciding between an upgrade or migration to Windows 10, and the supported upgrade paths from older versions of the Windows operating system.

Lesson

- Installing Windows 10
- Upgrading to Windows 10

Lab : Installing Windows 10

- Upgrading Windows 7 to Windows 10
- Migrating User Settings

After completing this module, students will be able to:

- Describe the different editions of Windows 10 and the features of each.
- Install and upgrade to Windows 10.

Module 3: Configuring Your Device

This module explains how to configure Windows 10 by using tools such as the Settings app, Control Panel, Windows PowerShell, Remote Server Administration Tools (RSAT) and Group Policy Objects (GPOs). It describes the different types of user accounts, and the benefits of using a Microsoft account. This module also describes Microsoft OneDrive, and how it integrates with Windows 10.

Lesson

- Overview of Tools Used to Configure Windows 10
- Common Configuration Options
- Managing User Accounts
- Using OneDrive

Lab : Configuring Windows 10

- Using the Settings App
- Using Control Panel
- Using Windows PowerShell
- Using GPOs

Lab : Synchronizing Settings with OneDrive

- Connecting a Microsoft Account
- Synchronizing Settings between Devices

After completing this module, students will be able to:

- Describe the use of various tools to configure Windows 10.
- Explain common configuration options.
- Manage user accounts.
- Use OneDrive with Windows 10.

Module 4: Configuring Network Connectivity

This module explains the use of tools such as the Settings app, Network and Sharing Center, and Windows PowerShell to configure network settings. It describes the differences between IPv4 and IPv6 settings, and the benefits of IPv6. It also describes name resolution and provides an overview of the Domain Name System (DNS) service. This module describes the configuration of wireless connectivity in Windows 10, and explains remote access methods available in Windows 10, such as Virtual Private Networks (VPNs), DirectAccess, and Remote Desktop.

Lesson

- Configuring IP Network Connectivity
- Implementing Name Resolution
- Implementing Wireless Network Connectivity
- Overview of Remote Access

Lab : Configuring Network Connectivity

- Verify and Test IPv4 Settings
- Configuring Automatic IPv4 Settings

- Configuring and Testing Name Resolution

After completing this module, students will be able to:

- Describe how to configure IP network connectivity.
- Implement name resolution.
- Implement wireless network connectivity.
- Describe options for remote access in Windows 10.

Module 5: Managing Storage

This module provides an overview of storage options such as hard disks, server-based storage, and virtual hard disks. It describes network storage options such as Network Attached Storage (NAS) and Storage Area Network (SAN), and cloud-based storage options such as OneDrive and Azure Storage. This module describes the management and maintenance of disks, partitions, and volumes. It also describes the Storage Spaces feature, and the process of configuring it.

Lesson

- Overview of Storage Options
- Managing Disks, Partitions, and Volumes
- Maintaining Disks and Volumes
- Managing Storage Spaces

Lab : Managing Storage

- Adding a Disk
- Creating a Simple Volume
- Compressing a Folder
- Enabling Disk Quotas
- Creating a Storage Space

After completing this module, students will be able to:

- Explain the different storage options in Windows 10.
- Manage disks, partitions, and volumes.
- Maintain disks, partitions, and volumes.
- Manage Storage Spaces.

Module 6: Managing Files and Printers

This module provides an overview of the file systems supported by Windows 10. It explains how to configure file permissions, the effect of file permissions, how explicit and inherited permissions work, and how to include user and device claims in access permissions. This module also explains how to share folders, the tools to use for sharing a folder, and the effective permissions when a user tries to access data in a shared folder that is protected by file permissions. The last lesson in the module describes how to add and share a printer, and how to manage client and server side printing.

Lesson

- Overview of File Systems
- Configuring and Managing File Access
- Configuring and Managing Shared Folders
- Work Folders
- Managing Printers

Lab : Configuring and Managing Permissions and Shares

- Creating, Managing, and Sharing a Folder
- Using Conditions to Control Access and Effective Permissions

Lab : Configuring and Using Work Folders

- Configuring Work Folders

Lab : Installing and Managing a Printer

- Managing and Using a Printer

After completing this module, students will be able to:

- Describe and create file systems that are Windows 10 supports.
- Configure file permissions.
- Explain how permission inheritance works.
- Implement conditions to limit access to files and folders.
- Configure and manage shares.
- Create and use Work Folders.
- Configure and manage printers.

Module 7: Managing Apps in Windows 10

This module describes how to install and configure both desktop apps and Windows Store apps in Windows 10. It explains how to install apps manually and automatically, and how to use Microsoft Systems Center Configuration Manager and Microsoft Intune to deploy apps. It describes the Windows Store, and how to manage access to it. This module also describes the Internet Explorer 11 and Edge browsers, and explains how to configure and manage both.

Lesson

- Overview of Providing Apps to Users
- The Windows Store
- Web Browsers

Lab : Installing and Updating Apps from the Windows Store

- Sideloaded an App
- Signing In with a Microsoft Account
- Installing and Updating Windows Store Apps

Lab : Configuring Windows 10 Web Browsers

- Configuring and Using Microsoft Edge
- Configuring and Using Internet Explorer

After completing this module, students will be able to:

- Describe the Windows 10 options for app deployment.
- Install and manage Windows Store apps.
- Configure Windows 10 web browsers.

Module 8: Managing Data Security

This module explains how the technologies available with Windows 10 work together to protect against data-related security threats. It provides an overview of these threats, and discusses possible mitigations and best practices for dealing with them. It describes defense-in-depth and Encrypting File System (EFS), and their usage in countering security threats. This module also describes how to configure, administer, and monitor BitLocker.

Lesson

- Overview of Data-Related Security Threats
- Securing Data with EFS
- Implementing and Managing BitLocker

Lab : Managing Data Security

- Using EFS
- Using Bitlocker

After completing this module, students will be able to:

- Understand data-related security threats.
- Secure data with Encrypting File System (EFS).
- Implement and manage BitLocker Drive Encryption.

Module 9: Managing Device Security

This module explains how to mitigate security threats with the use of Security Compliance Manager, Enhanced Mitigation Experience Toolkit, and security settings in GPOs. It also describes User Account Control (UAC), and how to configure it.

Lesson

- Using Security Settings to Mitigate Threats
- Configuring UAC

Lab : Managing Device Security

- Creating Security Policies
- Testing Security Policies
- Configuring UAC Prompts

After completing this module, students will be able to:

- Use security settings to mitigate threats.
- Configure user account control (UAC).

Module 10: Managing Network Security

This module describes common network-related security threats, and describes options to mitigate them. It describes Windows Firewall, IPsec connection security rules, and Windows Defender, and how to configure these tools to manage network security.

Lesson

- Overview of Network-Related Security Threats
- Windows Firewall
- Connection Security Rules
- Windows Defender

Lab : Managing 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:

- Describe network-related security threats and options for mitigating them.
- Use Windows Firewall to mitigate security threats.
- Configure IPsec connection security rules.
- Use Windows Defender to protect devices from network-related threats.

Module 11: Maintaining Windows 10

This module describes Windows Update, and Windows Update for Business, and how to configure settings for updates. It describes how to use Windows Server Update Services (WSUS), Configuration Manager, or Intune to distribute updates within organizations. This module also explains how to use the Action Center, Event Viewer, and Performance Monitor in Windows 10.

Lesson

- Updating Windows
- Monitoring Windows 10
- Optimizing Performance

Lab : Maintaining Windows 10

- Configuring Updates for a Single Device
- Configuring Updates with GPOs
- Monitoring Events
- Monitoring Reliability and Performance

After completing this module, students will be able to:

- Explain how to keep Windows 10 up to date.
- Monitor Windows 10.
- Optimize performance of Windows 10.

Module 12: Troubleshooting and Recovery

This module describes device drivers, and how to use the Device Manager to view, configure, update, and roll back device drivers. It explains file recovery methods in Windows 10, such as Backup and Restore, File History, and Previous Versions. This module also explains features such as System Restore, Startup Recovery, and System Image Recovery, and describes how to use restore points to roll back device configuration.

Lesson

- Managing Devices and Drivers
- Recovering Files
- Recovering Devices

Lab : Troubleshooting and Recovery

- Managing Device Drivers
- Using File History to Recover Files
- Using Previous Versions to Recover Files
- Recovering a Device with a Restore Point

- Using the Advanced Start-up Options to Recover a Device

After completing this module, students will be able to:

- Describe and manage device drivers.
- Configure file recovery and revert to previous versions of files.
- Use device recovery features in Windows 10.

1 - Managing Desktops and Devices in an Enterprise Environment

- Managing Windows 10 in the Enterprise
- Managing a Mobile Workforce
- Supporting Devices in the Enterprise
- Extending IT Management and Services to the Cloud
- Lab : Planning for Windows 10 and Device Management in the Enterprise

2 - Deploying Windows 10 Enterprise Desktops

- Overview of Windows 10 Enterprise Deployment
- Customizing Enterprise Desktop Deployments
- Deploying Windows 10 by Using the Microsoft Deployment Toolkit
- Maintaining a Windows 10 Installation
- Managing Volume License Activation for Windows 10
- Lab : Building a Reference Image by Using WADK Tools
- Lab : Using MDT to Deploy Windows 10 Desktops
- Lab : Maintaining a Windows 10 Installation using Windows ICD

3 - Managing User Profiles and User State Virtualization

- Managing User Profile and User State
- Implementing User State Virtualization by Using Group Policy
- Configuring User Experience Virtualization
- Managing User State Migration
- Lab : Configuring User Profiles and User State Virtualization
- Lab : Migrating User State by Using USMT

4 - Managing Windows 10 Sign-In and Identity

- Overview of Enterprise Identity
- Planning for Cloud Identity Integration
- Lab : Integrating a Microsoft Account with a Domain Account
- Lab : Joining Windows 10 to Azure Active Directory

5 - Managing Desktop and Application Settings by Using Group Policy

- Managing Group Policy Objects
- Configuring Enterprise Desktops Using Group Policy
- Overview of Group Policy Preferences
- Lab : Configuring Group Policy Objects and Settings
- Lab : Using Group Policy Preferences to Manage Desktop Settings

6 - Managing Data Access for Windows-based Devices

- Overview of Data Access Solutions
- Implementing Device Registration
- Implementing Work Folders
- Managing Online Data Using Cloud-Based Storage Solutions
- Lab : Configuring Data Access for Non-Domain Joined Devices
- Lab : Managing Data Access Using OneDrive

7 - Managing Remote Access Solutions

- Overview of Remote Access Solutions
- Configuring VPN Access to Remote Networks
- Using DirectAccess with Windows 10
- Supporting RemoteApp
- Lab : Implementing DirectAccess
- Lab : Configuring Azure RemoteApp

8 - Configuring and Managing Client Hyper-V

- Installing and Configuring Client Hyper-V
- Configuring Virtual Switches
- Creating and Managing Virtual Hard Disks
- Creating and Managing Virtual Machines
- Lab : Configuring Virtual Machines by Using Client Hyper-V

9 - Managing Windows 10 Devices Using Enterprise Mobility Solutions

- Overview of the Enterprise Mobility Suite
- Overview of Azure Active Directory Premium
- Overview of Azure Rights Management
- Overview of Microsoft Intune
- Lab : Implementing a Microsoft Intune Subscription

10 - Managing Desktop and Mobile Clients Using Microsoft Intune

- Deploying the Intune Client Software
- Overview of Microsoft Intune Policies
- Mobile Device Management Using Intune
- Lab : Installing the Intune Client Software and Configuring Policies
- Lab : Managing Mobile Devices Using Microsoft Intune

11 - Managing Updates and Endpoint Protection Using Microsoft Intune

- Managing Updates Using Microsoft Intune
- Managing Endpoint Protection
- Lab : Managing Updates and Endpoint Protection Using Microsoft Intune

12 - Application and Resource Access Using Microsoft Intune

- Overview of Application Management Using Intune
- The Application Deployment Process
- Controlling Access to Company Resources
- Lab : Deploying Applications by Using Microsoft Intune
- Lab : Managing Resource Access by Using Microsoft Intune