

#20697: IMPLEMENTING AND MANAGING WINDOWS 10

Available Dates: **Feb/Mar 25-1 Apr/May 29-3, Jun 3-7**

Class Length: **5 day**

Cost: **\$2,795**

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Class Outline:

Description:

This course provides students with the knowledge and skills required to install and configure Windows 10 desktops and devices in a corporate Windows Server domain environment. The skills that this course details include learning how to install and customize Windows 10 operating systems and apps, and configure local and remote network connectivity and storage. Students also will learn how to configure security for data, devices, and networks, and maintain, update, and recover Windows 10.

Course Outline:

Module 1: Overview of Windows 10

This module describes 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 enhanced Windows 10 user interface. Additionally, this module describes the Windows 10 features that make it beneficial for organizations of different sizes.

Lessons

- Introducing Windows 10
- Navigating the Windows 10 User 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, and provides instructions for installing, or upgrading to, Windows 10. Additionally, this module provides points that you should consider when deciding between an upgrade or migration to Windows 10, and the supported upgrade paths from older versions of the Windows operating system.

Lessons

- Installing Windows 10
- Upgrading 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. It also covers the common configuration options in Windows 10. Additionally, this module describes Microsoft OneDrive and its integration with Windows 10.

Lessons

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

Module 4: Configuring Network Connectivity

This module explains the use of tools to configure network settings, including the Network and Sharing Center and Windows PowerShell. It describes the differences between Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) settings, and the benefits of IPv6. Additionally, it describes how to implement name resolution and provides an overview of the Domain Name System (DNS) service. Lastly, this module describes how you can configure wireless connectivity in Windows 10, and explains remote access methods that are available in Windows 10, such as virtual private networks (VPNs), DirectAccess, and Remote Desktop.

Lessons

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

Module 5: Managing Storage

This module provides an overview of storage options, including hard disks, server-based storage, and virtual hard disks. It describes network storage options, including network-attached storage (NAS) and storage area networks (SANs), and cloud-based storage options, such as OneDrive and Microsoft Azure Storage. Additionally, this module describes the management and maintenance of disks, partitions, and volumes, and the configuration and use of the Storage Spaces feature.

Lessons

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

Module 6: Managing Files and Printers

This module provides an overview of the file systems that Windows 10 supports. 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 that you can use to share folders, and the effective permissions when a user tries to access data in a shared folder that is protected by file permissions. Additionally, this module explains how to create and use Work Folders. The last lesson in this module describes how to add and share a printer, and how to manage client and server-side printing.

Lessons

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

Module 7: Managing Apps in Windows 10

This module describes how to install and configure desktop apps and Windows Store apps in Windows 10. It explains how to install apps manually and automatically, and how to use Microsoft System Center Configuration Manager and Microsoft Intune to deploy apps. Additionally, it describes the Windows Store and the way in which you can manage access to it. Lastly, this module describes the Internet Explorer 11 and Microsoft Edge browsers, and explains how to configure and manage both browsers.

Lessons

- Overview of Providing Apps to Users
- The Windows Store
- 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 how you can use those methods to counter security threats. Additionally, this module describes how to configure, administer, and monitor BitLocker drive encryption.

Lessons

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

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. This module also explains the use of AppLocker to configure application usage and restrictions.

Lessons

- Using Security Settings to Mitigate Threats
- Configuring UAC
- Configuring Application Restrictions

Module 10: Managing Network Security

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

Lessons

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

Module 11: 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.

Lessons

- Managing Devices and Drivers
- Recovering Files
- Recovering Devices

Module 12: 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.

Lessons

- Updating Windows
- Monitoring Windows 10
- Optimizing Performance
- Configuring Updates for a Single Device
- Configuring Updates with GPOs
- Monitoring Events
- Monitoring Reliability and Performance