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Implementing and Managing Windows 10

CODE:	DURÉE:	PRIX H.T.:
MCS_20697-1	40 Hours (5 Jours)	€2,795.00

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.

Objectifs

After completing this course, students will be able to: Describe the important new features of Windows 10.   Install Windows 10.   Configure a device that is running Windows 10.   Configure network connectivity for a Windows 10 device.   Manage storage in Windows 10.   Manage folders and printers.   Manage apps.   Manage data security.   Manage device security.   Implement Windows 10 features to improve network security.   Restore files, roll back drivers, and recover Windows 10 devices.   Monitor and update Windows 10 devices.

Audience

This course is for information technology (IT) professionals who administer and support Windows 10 desktops, devices, users, and associated network and security resources. The networks with which these professionals typically work are configured as Windows Server domain-based environments with managed access to the Internet and cloud services. Students who seek certification in the 70-697 Windows 10 Configuring exam also will benefit from this course. Additionally, this course builds skills for Enterprise Desktop/Device Support Technicians who provide Tier 2 support to users who are running Windows 10 desktops and devices within a Windows domain environment in medium-sized and larger organizations.

Prérequis

Before attending this course, students must have:
    Knowledge of networking fundamentals, including TCP/IP, User Datagram Protocol (UDP), and DNS.
    Knowledge of Active Directory Domain Services (AD DS) principles, and fundamentals of AD DS management.
    Understanding of certificate-based security.   Understanding of Windows Server 2008 or Windows Server 2012 fundamentals.
    Understanding of Windows client operating system essentials, such as a working knowledge of Windows Vista, Windows 7, or Windows 8.

Programme

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 this module describes the Windows 10 features that make it beneficial for organizations of different sizes.
            Introducing Windows 10
Lessons   Navigating the Windows 10 User Interface Lab : Navigating and Customizing the User Interface
    Navigating the Windows 10 User Interface
    Configuring Start
    Configuring the Desktop   After completing this module, students will be able to:
    Describe 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, 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.

Installing Windows 10   Upgrading Windows 7 to Windows 10
Lessons   Upgrading to Windows 10 Lab : Installing Windows 10   Migrating User Settings
After completing this module, students will be able to: Choose how to install Windows 10.
Describe the process of 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.

Overview of Tools You Can Use to Configure Windows 10   Using the Settings App
Common Configuration Options   Using Control Panel
Managing User Accounts   Using Windows PowerShell
Lessons   Using OneDrive   Lab : Configuring Windows 10   Using GPOs
Connecting a Microsoft Account
Lab : Synchronizing Settings with OneDrive   Synchronizing Settings between Devices
After completing this module, students will be able to: Describe the different tools that they can use 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 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.

Configuring IP Network Connectivity
Implementing Name Resolution
Implementing Wireless Network Connectivity
Lessons   Overview of Remote Access   Lab : Configuring Network Connectivity
Verifying and Testing 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, 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.

                                                                Adding a Disk
Overview of Storage Options   Creating a Simple Volume
Managing Disks, Partitions, and Volumes   Compressing a Folder
Maintaining Disks and Volumes   Enabling Disk Quotas
Lessons   Managing Storage Spaces   Lab : Managing Storage   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 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.

Overview of File Systems
Configuring and Managing File Access
Configuring and Managing Shared Folders
Work Folders
Lessons   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 Windows 10 supports.
Configure file permissions.   Explain how permission inheritance works.
Implement conditions to limit access to files and folders.   Create 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 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.

Overview of Providing Apps to Users
The Windows Store
Lessons   Web Browsers   Lab : Installing and Updating Apps from the Windows Store
Sideloading 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 how you can use those methods to counter security threats. Additionally, this module describes how to configure, administer, and monitor BitLocker drive encryption.

Overview of Data-Related Security Threats
Securing Data with EFS   Using EFS
Lessons   Implementing and Managing BitLocker   Lab : Managing Data Security   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. This module also explains the use of AppLocker to configure application usage and restrictions.

Creating Security Policies
Using Security Settings to Mitigate Threats   Testing Security Policies
Configuring UAC   Configuring UAC Prompts
Lessons   Configuring Application Restrictions   Lab : Managing Device Security   Configuring and Testing AppLocker
After completing this module, students will be able to: Use security settings to mitigate threats.   Configure UAC.
Configure 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.

Overview of Network-Related Security Threats
Windows Firewall
Connection Security Rules
Lessons   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.   Manage Windows Firewall.   Configure connection security rules.
Manage 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.

Managing Devices and Drivers
Recovering Files
Lessons   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.
Describe and use device recovery features in Windows 10   **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.

Updating Windows
Monitoring Windows 10
Optimizing Performance
Configuring Updates for a Single Device
Configuring Updates with GPOs
Monitoring Events
Lessons   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.

Dates de session

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Informations
Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.