

# ***Corso Implementing and Managing Windows 11***



**Durata:** 4 giornate

**A chi è rivolto:**

Professionisti IT che amministrano e supportano Windows 11; studenti che desiderano certificarsi, Tecnici Enterprise Desktop / device support (EDSTs).

**Scopo del corso:**

Il corso è stato pensato per fornire agli studenti le conoscenze e le competenze necessarie per installare e configurare Windows 11 desktop e dispositivi in un dominio aziendale di Windows Server. Queste abilità includono imparare come installare e personalizzare i sistemi operativi e le applicazioni Windows 11, e configurare la connettività di rete locale e remota e lo stoccaggio. Gli studenti potranno anche imparare a configurare la sicurezza dei dati, sicurezza del dispositivo, e la sicurezza della rete, e mantenere, aggiornare e recuperare di Windows 11.

Al termine del corso gli allievi saranno in grado di:

- Installare Windows 10/11
- Configurare un dispositivo con sistema operativo Windows 11.
- Gestire lo storage in Windows 11.
- Gestire cartelle e stampanti.
- Gestire le applicazioni.
- Gestire la sicurezza dei dati.
- Gestire la sicurezza del dispositivo.
- Implementare le funzioni di Windows 11 per migliorare la sicurezza della rete.
- Monitorare e aggiornare i dispositivi di Windows 11.
- Ripristinare i file, ripristinare i driver.



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### **Prerequisiti:**

Per partecipare con profitto a questo corso è necessario che gli allievi possiedano i seguenti prerequisiti:

- Almeno due anni di esperienza nel settore IT.
- Conoscenza dei fondamenti di networking, tra cui Transmission Control Protocol / Internet Protocol (TCP / IP), User Datagram Protocol (UDP) e Domain Name System (DNS).
- Conoscenza di Servizi di dominio Microsoft Active Directory (AD DS) Conoscenza di Windows Server 2008 R2 o Windows Server 2012 Conoscenza di Microsoft Windows
- Conoscenza di base della sintassi di Windows PowerShell.

### **Contenuti:**

#### **Module 1: Overview of Windows 11**

This module introduces the Windows 11 operating system. It describes the new features in Windows 11, 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 11 that make it beneficial for organizations of different sizes.

Lessons

Introducing Windows 11

Navigating the User Interface

Lab : Navigating and Customizing the User Interface

Navigating Windows 11

Configuring the Start Menu

Configuring the Desktop

After completing this module, students will be able to:

Describe the important new features of Windows 11.

Navigate and customize the Windows 11 interface.

#### **Module 2: Installing Windows 11**

This module introduces the different editions of Windows 10, and the differences between them. It describes the requirements and available options for installing Windows 11 on a device. It also provides instructions on installing Windows 11 and upgrading to it. This module discusses points to

consider when deciding between an upgrade or migration to Windows 11, and the supported upgrade paths from older versions of the Windows operating system.

Lessons

Preparing to Install Windows 11

Upgrading to Windows 11

Lab : Installing Windows 11

Upgrading Windows 7 to Windows 11

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 11.

### **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 11.

Lessons

Overview of Tools Used to Configure Windows 11

Common Configuration Options

Managing User Accounts

Using OneDrive

Lab : Configuring Windows 11

Using Settings

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 11.

Explain common configuration options.

Manage user accounts.

Use OneDrive with Windows 11.

#### **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 11, and explains remote access methods 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

Lab : Configuring Network Connectivity

Configuring IP Settings Manually

Configuring Automatic IP Settings

Configuring DNS Settings

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 11.

#### **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.

Lessons

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 11.

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.

Lessons

Overview of File Systems

Configuring and Managing File Access

Configuring and Managing Shared Folders

Work Folders



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## Managing Printers

Lab : Creating, Securing, and Sharing a Folder

Creating and Securing a Data Folder

Sharing the Data Folder

Lab : Enabling Work Folders

Configuring Work Folders

Lab : Installing and Sharing a Printer

Installing and Sharing a Printer

After completing this module, students will be able to:

Describe and create file systems that are supported by Windows 11.

Configure file permissions and limit access to files and folders.

Configure and manage shared folders.

Create and use Work Folders.

Configure and manage printers.

## **Module 7: Managing Apps in Windows 11**

This module describes how to install and configure both desktop apps and Windows Store apps in Windows 11. 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.

Lessons

Overview of Methods Used to Provide Apps to Users

The Windows Store

Web Browsers

Lab : Installing and Updating Apps from the Windows Store

Installing Apps from the Windows Store

Updating Windows Store Apps

Controlling Access to the Windows Store

Sideloaded an App

Lab : Configuring Windows 11 Web Browsers

## Configuring Web Browsers

After completing this module, students will be able to:

Describe app deployment options in Windows 10.

Install and manage Windows Store apps.

Configure Windows 11 web browsers.

## **Module 8: Managing Data Security**

This module explains how the technologies available with Windows 11 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.

Lessons

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:

Explain data-related security threats.

Secure data with EFS.

Implement and manage 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.

Lessons

Using Security Settings to Mitigate Threats

Configuring User Account Control

Lab : Managing Device Security



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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.

### **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.

Lessons

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 11**

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 11.





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## Lessons

Updating Windows 11

Monitoring Windows 11

Optimizing Performance

Lab : Maintaining Windows 11

Configuring Updates for a Single Device

Configuring Updates with GPOs

Using the Action Center

Monitoring Events

Monitoring Reliability and Performance

After completing this module, students will be able to:

Explain how to update Windows 11.

Monitor Windows 11.

Optimize Windows 11 performance.

## **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.

## Lessons

Managing Devices and Drivers

Recovering Files

Recovering Devices

Lab : Troubleshooting and Recovery

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



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## 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 11.

\*Questo corso sostituisce il MOC20697