



# ExecuTrain

Impulsamos tu talento tecnológico

- Aplicaciones Móviles
- Colaboración
- Mejores Practicas
- Sistemas Operativos
- Bases de datos
- Cloud Computing
- Office
- Virtualización
- Big Data
- Desarrollo
- Seguridad

Tel: 33 3647 6622

[ventas@executrain.com.mx](mailto:ventas@executrain.com.mx)

[www.executrain.com.mx](http://www.executrain.com.mx)



## ¿Por qué ExecuTrain?

ExecuTrain es un proveedor de entrenamiento corporativo a nivel internacional y líder mundial en la capacitación empresarial. Contamos con 28 años y más de 62 mil personas capacitadas en zona occidente.

### ¿Por qué ExecuTrain?

Te guiamos en la definición de tus requerimientos de capacitación, en las diferentes etapas:

- Detección de necesidades, evaluación de conocimientos, plan de capacitación y seguimiento posterior para elegir el plan de capacitación como tú lo necesitas.
- El más amplio catálogo de cursos, desde un nivel básico hasta los niveles de conocimientos más especializados.
- En ExecuTrain el material y la metodología están diseñados por expertos en aprendizaje humano. Lo que te garantiza un mejor conocimiento en menor tiempo.
- Tú puedes confiar y estar seguro del aprendizaje porque nuestro staff de instructores es de primer nivel, algunos de los cuales son consultores en reconocidas empresas.
- No pierdas tu tiempo, los cursos están diseñados para un aprendizaje práctico.
- Nuestra garantía: Nuestro compromiso es que tú aprendas, si no quedas satisfecho con los resultados del programa, podrás volver a tomar los cursos hasta tu entera satisfacción o la devolución de tu dinero.

### Modalidad de servicio

- Cursos de Calendario
- Cursos Privados: On site y en nuestras instalaciones.
- Cursos Personalizados: Adaptamos el contenido del curso y su duración dependiendo de la necesidad del cliente.
- E-Training: cursos a distancia de forma interactiva, mejorando la capacidad de aprendizaje de nuestros participantes guiados por un instructor en vivo.



## MD-100 / Windows 10

En este curso, los estudiantes aprenderán a admitir y configurar escritorios de Windows 10 en un entorno organizacional. Los estudiantes desarrollarán habilidades que incluyen aprender a instalar, personalizar y actualizar los sistemas operativos Windows 10. Los estudiantes aprenderán cómo administrar el almacenamiento, los archivos y los dispositivos, así como cómo configurar la conectividad de red para Windows 10. También aprenderán cómo proteger el sistema operativo Windows 10 y proteger los datos en el dispositivo. Finalmente, los estudiantes aprenderán cómo administrar y solucionar problemas de Windows 10.

### > Al Finalizar el Curso

- Instalar y personalizar Windows 10
- Configurar actualizaciones para Windows.
- Configurar dispositivos y controladores para Windows.
- Configurar el almacenamiento para Windows.
- Configurar la red y la configuración de administración remota en Windows.
- Configurar y administrar navegadores y aplicaciones en Windows.
- Configurar el acceso a la cuenta y la autenticación.
- Configurar permisos de archivos y carpetas.
- Describir los métodos para proteger Windows 10, las amenazas comunes y los métodos para mitigarlos.
- Solucionar problemas de Windows e instalaciones de aplicaciones.
- Solucionar problemas de hardware y controladores.
- Solucionar problemas de archivos y realizar recuperaciones.

### > Audiencia

Los candidatos para este examen son profesionales de TI que realizan la instalación, configuración, administración local general y mantenimiento de los servicios básicos de Windows 10. Los candidatos también pueden estar familiarizados con escenarios empresariales y servicios integrados en la nube.



## > Módulos

### Module 1: Installing Windows

This module covers installing the Windows 10 OS. Students will learn the different editions of Windows 10, requirements, and new features introduced. This module covers how to install the OS, as well as methods for migrations and upgrading. Students will also learn about common tools used in the deployment process.

#### Lessons

- Introducing Windows 10
- Windows 10 Editions and Requirements
- Deployment Options
- Upgrading to Windows 10
- Deployment Tools

Lab : In-place upgrade of Win7 to Win 10

Lab : Migrating User Settings using USMT

**After completing this module, students will be able to:**

- Understanding the different editions and features of Windows 10.
- Understand the Windows 10 client installation options.
- Practice installing Windows 10.
- Migrate content using the User State Migration Tool.

### Module 2: Post-installation Configuration and Personalization

This module covers common post-installation tasks in Windows 10. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings. This course will also introduce students to Windows PowerShell. This module will cover how device drivers work and how they work. Students will also be introduced to managing and configuring hardware peripherals such as printers.

#### Lessons

- Configure and Customize the Windows Start Menu
- Common Configuration Options
- Advanced Configuration Methods

- Managing Drivers and Devices  
Lab : Using Settings App & Control Panel  
Lab : Using Group Policy Objects  
Lab : Using PowerShell to Configure Windows  
Lab : Managing local and network printers

**After completing this module, students will be able to:**

- Customize the Windows 10 UI
- Configure device specific settings such as power plans and mobile device options.
- Use the Windows control panel and settings app to configure settings.
- Perform tasks using Windows PowerShell.
- Describe concepts related to drivers.
- Describe printer management concepts.
- Configure client-side printing and managing print server properties.

### Module 3: Updating Windows in Windows 10

In this module, Students will learn about keeping Windows 10 up-to-date. Students will be introduced to the new Windows servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business.

#### Lessons

- Windows Servicing Model
- Updating Windows

Lab : Updating Windows 10

After completing this module, students will be able to:

- Describe the Windows servicing model.
- Configure Windows update settings.
- Describe updating Windows using WSUS.
- Describe updating Windows using Windows Update for Business.
- Configure Windows update using group policy.

## Module 4: Configuring Networking

In this module, Students will learn about networking concepts. This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies. The module will conclude with methods of managing Windows remotely.

### Lessons

- Configure IP Network Connectivity
- Implement Name Resolution
- Implement Wireless Network Connectivity
- Remote Access Overview
- Remote Management

Lab : Configuring Network Connectivity

Lab : Configuring and Testing Name

ResolutionLab : Remote Management

### After completing this module, students will be able to:

- Configure IP network connectivity.
- Describe how name resolution works.
- Describe remote access technologies like VPNs.
- Configure Windows for remote management and access.

## Module 5: Configuring Storage

This module covers storage configuration and management in Windows 10. Students will be introduced to local, cloud and virtual storage options. This course will also cover configuring storage on client devices and introduce storage spaces.

### Lessons

- Overview of storage options
- Managing Local Storage
- Maintaining Disks and Volumes
- Managing Storage Spaces

Lab : Managing StorageLab : Compressing Folders

Lab : Enabling Disk Quotas

Lab : Creating a Storage Space

Lab : Synchronizing files with OneDrive

- Describe the options and benefits of local, cloud, and virtual storage.
- Configure OneDrive.
- Configure local disk partitions and volumes.
- Describe the capabilities and benefits of Storage spaces.

## Module 6: Managing Apps in Windows 10

In this module, Students will be introduced to App management in Windows 10. This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store. Finally, this module will cover the differences between Internet Explorer and Microsoft Edge.

### Lessons

- Providing Apps to Users
- Managing Universal Windows Apps
- Web Browsers in Windows 10

Lab : Sideloading an App

Lab : Installing and Updating Microsoft Store

AppsLab : Configuring Internet Explorer Enterprise Mode

### After completing this module, students will be able to:

- Describe the different types of applications.
- Install applications manually and using automated methods.
- Manage application deployment using the Windows Store.
- Learn about web browser features in Windows 10.

## Module 7: Configuring Authorization & Authentication

This module introduces the tools and features of Windows 10 for authorizing access to Windows 10 clients. Students will learn about methods for how users sign-in to Windows 10. This module also covers restricting what users can or cannot do on a

device through methods like UAC and account types.

#### Lessons

- Authentication
- Configuring User Account Control
- Implementing Device Registration

Lab : Lab: Joining a Domain  
Lab : Lab: Creating Security Policies  
Lab : Lab: Configuring UAC

#### After completing this module, students will be able to:

- Describe the different methods for securing data and the Windows 10 OS.
- Describe the different types of user and service accounts.
- Configure Windows Hello.
- Configure user account control.

### Module 8: Configuring Data Access and Usage

In this module, Students will learn about permissions. This module will cover considerations for different files systems. Students will learn how to configure file and folder permissions as well as shared folders. The module will conclude with configuring settings through methods such as local and group policy.

#### Lessons

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

Lab : Creating, Managing, and Sharing a Folder

Lab : Using Conditions to Control Access and Effective Permissions

#### After completing this module, students will be able to:

- Describe the differences and benefits of supported file systems.
- Configure file and folder permissions.
- Configure shared folders.
- Secure Windows through local policy settings.

### Module 9: Configuring Threat Protection and Advanced Security

This module introduces students to protecting devices from external threats. Students will learn about the different types of common threats. This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker.

#### Lessons

- Malware and Threat Protection
- Windows Defender
- Connection Security Rules
- Advanced Protection Methods

Lab : Lab: Configuring Windows Defender  
Lab : Lab: Creating Firewall Rules  
Lab : Lab: Creating Connection Security Rules  
Lab : Lab: Using EFS  
Lab : Lab: Using Bitlocker  
Lab : Lab: Configuring AppLocker

#### After completing this module, students will be able to:

- Identify common security threats .
- Describe the methods by which you can mitigate these common security threats.
- Describe the different methods of encryption.
- Describe how Windows firewall can secure the device.
- Describe the benefits of using IPSec.
- Describe the different features of Windows Defender.
- Describe the benefits of using AppLocker.

### Module 10: Supporting the Windows 10 Environment

This module will cover the Windows 10 architecture and common environments. Students will be introduced to the various tools used in maintaining Windows. This module will also discuss methodologies for effectively troubleshooting issues and how to proactively manage and optimize Windows 10.

#### Lessons

- Windows Architecture

- Support and Diagnostic Tools
  - Monitoring and Troubleshooting
- Computer Performance  
 Lab : Monitoring Events  
 Lab : Monitoring Reliability and Performance

**After completing this module, students will be able to:**

- Describe the Windows architecture.
- Describe key stages in troubleshooting.
- Describe the purpose and benefits of the various tools in Windows.
- Use monitoring tools to establish a performance baseline
- Optimize performance on Windows 10 clients.

**Module 11: Troubleshooting Files & Applications**

This module helps students plan for file backup and recovery. Students will learn how to plan and configure data protection strategies and how to perform various file and system recovery methods. This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues.

**Lessons**

- File Recovery in Windows 10
- Application Troubleshooting

Lab : Using File History to Recover Files  
 Lab : Troubleshooting Desktop Apps  
 Lab : Troubleshooting Application Compatibility Issues  
 Lab : Troubleshooting Microsoft Edge Issues

**After completing this module, students will be able to:**

- Describe the different methods of file recovery.
- Configure Windows 10 to support individual file and system recovery.
- Recover a device using the Reset This PC function.
- Solve application compatibility issues with the Application Compatibility Toolkit.
- Troubleshoot common browser issues.

**Module 12: Troubleshooting the OS**

In this module, Students will learn how to troubleshoot startup and service issues related to the operating system. This module will teach the different startup and recovery options, and how to troubleshoot different Windows services.

**Lessons**

- Troubleshooting Windows Startup
  - Troubleshooting Operating System Service Issues
- Lab : Recovering using Reset This PC  
 Lab : Recovering using a Restore Point

**After completing this module, students will be able to:**

- Describe the various methods identifying and recovering from startup issues.
- Describe when to use the various advanced startup options.
- Identify and disable a failed service.
- Identify and mitigate common locked account scenarios.

**Module 13: Troubleshooting Hardware and Drivers**

This module introduces hardware troubleshooting. Students will learn about driver management and how to troubleshoot devices. Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation.

**Lessons**

- Troubleshooting Device Driver Failures
  - Overview of Hardware Troubleshooting
  - Troubleshooting Physical Failures
- Lab : Recovering using Driver Rollback

**After completing this module, students will be able to:**

- Troubleshoot and remediate driver issues.
- Troubleshoot Peripherals
- Diagnose and replace hardware.