



# Microsoft 365 Endpoint Administrator

**Course MD-102T00: 4 days; Instructor-Led**

## Introduction

In this course, students will learn to plan and execute an endpoint deployment strategy using contemporary deployment techniques and implementing update strategies. The course introduces essential elements of modern management, co-management approaches, and Microsoft Intune integration. It covers app deployment, management of browser-based applications, and key security concepts such as authentication, identities, access, and compliance policies. Technologies like Azure Active Directory, Azure Information Protection, and Microsoft Defender for Endpoint are explored to protect devices and data.

## Audience

The Microsoft 365 Endpoint Administrator is responsible for deploying, configuring, securing, managing, and monitoring devices and client applications in a corporate setting. Their duties include managing identity, access, policies, updates, and apps. They work alongside the M365 Enterprise Administrator to develop and execute a device strategy that aligns with the requirements of a modern organization. Microsoft 365 Endpoint Administrators should be well-versed in M365 workloads and possess extensive skills and experience in deploying, configuring, and maintaining Windows 11 and later, as well as non-Windows devices. Their role emphasizes cloud services over on-premises management technologies.

**Job role:** Administrator

**Preparation for exam:** [MD-102](#)

## Prerequisites

The Modern Desktop Administrator must be familiar with M365 workloads and must have strong skills and experience of deploying, configuring, and maintaining Windows 11 and later, and non-Windows devices.

## Course Outline

### Module 1: Explore the Enterprise Desktop

This module covers modern endpoint management and enterprise desktop lifecycle concepts. It teaches the stages of the lifecycle (planning, deployment, maintenance) and provides a foundation for future learning.

#### Lessons

- Examine benefits of modern management
- Examine the enterprise desktop life-cycle model
- Examine planning and purchasing
- Examine desktop deployment
- Plan an application deployment
- Plan for upgrades and retirement

### Module 2: Explore Windows Editions

This module covers Windows OS editions, features, and installation methods. Learners gain a deeper understanding of the available editions and corresponding installation processes.

#### Lessons

- Examine Windows client editions and capabilities
- Select client edition
- Examine hardware requirements

### Module 3: Manage Azure Active Directory identities

This module teaches how to use Azure AD effectively. You'll learn about RBAC, user roles, creating and managing users and groups, using PowerShell cmdlets, and synchronizing objects from AD DS to Azure AD.

**Lessons**

- Examine RBAC and user roles in Azure AD
- Create and manage users in Azure AD
- Create and manage groups in Azure AD
- Manage Azure AD objects with PowerShell
- Synchronize objects from AD DS to Azure AD

**Module 4: Manage device authentication**

In this module, you learn about device authentication and management in Azure Active Directory

**Lessons**

- Describe Azure AD join
- Examine Azure AD join prerequisites limitations and benefits
- Join devices to Azure AD
- Manage devices joined to Azure AD

**Module 5: Enroll devices using Microsoft Configuration Manager**

This module introduces students to client deployment options and some of the high-level management and monitoring options that are available using Configuration Manager.

**Lessons**

- Deploy the Microsoft Configuration Manager client
- Monitor the Microsoft Configuration Manager client
- Manage the Microsoft Configuration Manager client

**Module 6: Enroll devices using Microsoft Intune**

Students will learn how to configure and setup Intune to more easily manage Windows, Android, and iOS devices.

**Lessons**

- Manage mobile devices with Intune
- Enable mobile device management
- Explain considerations for device enrollment
- Manage corporate enrollment policy
- Enroll Windows devices in Intune
- Enroll Android devices in Intune
- Enroll iOS devices in Intune
- Explore device enrollment manager
- Monitor device enrollment
- Manage devices remotely

**Module 7: Execute device profiles**

Students learn about the various types of device profiles, and how to create and manage them.

**Lessons**

- Explore Intune device profiles
- Create device profiles
- Create a custom device profile

**Module 8: Oversee device profiles**

This module introduces students to monitoring profiles to ensure correct assignments and resolving conflicts when multiple profiles are applied.

**Lessons**

- Monitor device profiles in Intune
- Manage device sync in Intune
- Manage devices in Intune using scripts

**Module 9: Maintain user profiles**

Students learn about the benefits of various Windows user profiles, how to manage them, and how to facilitate profile data synchronization across multiple devices.

**Lessons**

- Examine user profile
- Explore user profile types
- Examine options for optimizing user profile size
- Deploy and configure folder redirection
- Sync user state with Enterprise State Roaming
- Configure Enterprise State Roaming in Azure

**Module 10: Execute mobile application management**

This module introduces Mobile Application Management (MAM). Students will learn about considerations for implementing MAM and will be introduced to the management of MAM using Intune and Configuration Manager.

**Lessons**

- Examine mobile application management
- Examine considerations for mobile application management
- Prepare line-of-business apps for app protection policies
- Implement mobile application management policies in Intune
- Manage mobile application management policies in Intune

**Module 11: Deploy and update applications**

In this module, you'll master deploying applications using Intune, Configuration Manager, Group Policy, and Microsoft Store Apps. These powerful tools and techniques will equip you to manage and maintain diverse applications across your organization effectively.

**Lessons**

- Deploy applications with Intune
- Add apps to Intune
- Manage Win32 apps with Intune
- Deploy applications with Configuration Manager
- Deploying applications with Group Policy
- Assign and publish software
- Explore Microsoft Store for Business
- Implement Microsoft Store Apps
- Update Microsoft Store Apps with Intune
- Assign apps to company employees

**Module 12: Administer endpoint applications**

In this module, you're introduced to managing apps on Intune managed devices. The module will then conclude with an overview of how to use IE Mode with Microsoft Edge.

**Lessons**

- Manage apps with Intune
- Manage Apps on non-enrolled devices
- Deploy Microsoft 365 Apps with Intune
- Additional Microsoft 365 Apps Deployment Tools
- Configure Microsoft Edge Internet Explorer mode
- App Inventory Review

**Module 13: Protect identities in Active Directory Domain Services**

This module introduces students to the various authentication methods used to protect identities.

**Lessons**

- Explore Windows Hello for Business
- Deploy Windows Hello
- Manage Windows Hello for Business
- Explore Azure AD identity protection
- Manage self-service password reset in Azure AD
- Implement multi-factor authentication

**Module 14: Enable organizational access**

This module describes how clients can be configured to access organizational resources using a virtual private network (VPN).

**Lessons**

- Enable access to organization resources
- Explore VPN types and configuration
- Explore Always On VPN
- Deploy Always On VPN

**Module 15: Implement device compliance**

This module describes how to use compliance and conditional access policies to help protect access to organizational resources.

**Lessons**

- Protect access to resources using Intune
- Explore device compliance policy
- Deploy a device compliance policy
- Explore conditional access
- Create conditional access policies

**Module 16: Generate inventory and compliance reports**

This module describes how to use Microsoft Endpoint Manager and Power BI to create compliance and custom reports.

**Lessons**

- Report enrolled devices inventory in Intune
- Monitor and report device compliance
- Build custom Intune inventory reports
- Access Intune using Microsoft Graph API

**Module 17: Deploy device data protection**

This module describes how you can use Intune to create and manage WIP policies that manage this protection. The module also covers implementing BitLocker and Encrypting File System.

**Lessons**

- Explore Windows Information Protection
- Plan Windows Information Protection
- Implement and use Windows Information Protection
- Explore Encrypting File System in Windows client
- Explore BitLocker

**Module 18: Manage Microsoft Defender for Endpoint**

This module explores using Microsoft Defender for Endpoint to provide additional protection and monitor devices against threats.

**Lessons**

- Explore Microsoft Defender for Endpoint
- Examine key capabilities of Microsoft Defender for Endpoint
- Explore Windows Defender Application Control and Device Guard
- Explore Microsoft Defender Application Guard
- Examine Windows Defender Exploit Guard
- Explore Windows Defender System Guard

**Module 19: Manage Microsoft Defender in Windows client**

This module explains the built-in security features of Windows clients and how to implement them using policies.

**Lessons**

- Explore Windows Security Center
- Explore Windows Defender Credential Guard
- Manage Microsoft Defender Antivirus

- Manage Windows Defender Firewall
- Explore Windows Defender Firewall with Advanced Security

### **Module 20: Manage Microsoft Defender for Cloud Apps**

This module covers Microsoft Defender for Cloud Apps, focusing on securing sensitive data, its relevance in dynamic work settings, and effective utilization for improved security posture.

#### **Lessons**

- Explore Microsoft Defender for Cloud Apps
- Planning Microsoft Defender for Cloud Apps
- Implement Microsoft Defender for Cloud Apps

### **Module 21: Assess deployment readiness**

Discusses some of the tools that you can use to perform detailed assessments of existing deployments, and describes some of the challenges that you may face.

#### **Lessons**

- Examine deployment guidelines
- Explore readiness tools
- Assess application compatibility
- Explore tools for application compatibility mitigation
- Prepare network and directory for deployment
- Plan a pilot

### **Module 22: Deploy using the Microsoft Deployment Toolkit**

Discusses the shifts from traditional to modern management and where on-premises solutions best fit in today's enterprise.

#### **Lessons**

- Evaluate traditional deployment methods
- Set up the Microsoft Deployment Toolkit for client deployment
- Manage and deploy images using the Microsoft Deployment Toolkit

### **Module 23: Deploy using Microsoft Configuration Manager**

This module explains the common day to day tasks that Administrators would use Configuration Manager to perform.

#### **Lessons**

- Explore client deployment using Configuration Manager
- Examine deployment components of Configuration Manager
- Manage client deployment using Configuration Manager
- Plan in-place upgrades using Configuration Manager

### **Module 24: Deploy Devices using Windows Autopilot**

Use Autopilot to deploy new hardware or refreshing an existing hardware with the organization's desired configuration, without using the traditional imaging process.

#### **Lessons**

- Use Autopilot for modern deployment
- Examine requirements for Windows Autopilot
- Prepare device IDs for Autopilot
- Implement device registration and out-of-the-box customization
- Examine Autopilot scenarios
- Troubleshoot Windows Autopilot

### **Module 25: Implement dynamic deployment methods**

Use dynamic provisioning methods such as Subscription Activation, Provisioning packages, and Azure AD join to reconfigure an existing operating system.

#### **Lessons**

- Examine subscription activation
- Deploy using provisioning packages

- Use Windows Configuration Designer
- Use Azure AD join with automatic MDM enrollment

### **Module 26: Plan a transition to modern endpoint management**

Explore considerations and review the planning of transitioning to modern management, focusing on migration and newly provisioned devices.

#### **Lessons**

- Explore using co-management to transition to modern endpoint management
- Examine prerequisites for co-management
- Evaluate modern management considerations
- Evaluate upgrades and migrations in modern transitioning
- Migrate data when modern transitioning
- Migrate workloads when modern transitioning

### **Module 27: Manage Windows 365**

This module teaches managing Microsoft's cloud-based PC management solution, Windows 365, offering personalized, secure Windows 11 experience from any device. Learn features, setup, management, security, deployment options, and licensing to optimize your environment.

#### **Lessons**

- Explore Windows 365
- Configure Windows 365
- Administer Windows 365

### **Module 28: Manage Azure Virtual Desktop**

Learn to manage Azure Virtual Desktop, a cloud-based VDI solution providing personalized, secure Windows 11 experiences. Understand key features, management, security, and deployment options for optimizing your environment.

#### **Lessons**

- Examine Azure Virtual Desktop
- Explore Azure Virtual Desktop
- Configure Azure Virtual Desktop
- Administer Azure Virtual Desktop

