This course provides administrators with the knowledge and skills necessary to deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment. Students will learn how to plan and implement Windows 10 deployments in large organizations. Students will also learn how to manage the Windows 10 installations after deployment to provide secure identity and data access by using technologies related to User Experience Virtualization (UE-V), Group Policy, Work Folders and Client Hyper-V. To support a variety of device and data management solutions, Microsoft Azure Active Directory (Azure AD), Microsoft Intune, Microsoft Store for Business and Office 365 are used for device management. These services are part of the Enterprise Mobility+ Security, which provides identity and access management, cloud-based device management, application and update management, and more secure data access to information stored both on the cloud and onsite within your corporate network.

Who Should Attend

This course is intended for IT professionals who are interested in specializing in Windows 10 desktop and application deployments and in managing the cloud-based application and data service environments for medium-to-large enterprise organizations. These professionals typically work with networks that are configured as Windows Server domain-based environments with managed access to the internet and cloud services.

Course Objectives

After completing this course, students will be able to:
Manage PCs and devices in an enterprise environment.
Deploy Windows 10 enterprise desktops.
Manage Windows 10 sign-in and identity.
Manage user profiles and User Experience Virtualization.
Manage desktop and application settings by using Group Policy.
Manage devices in Office 365.
Manage PCs and devices by using Intune.
Configure and using Microsoft Store for Business.
Deploy apps and manage information access by using Intune.
Manage data access for Windows-based devices.
Configure and manage Client Hyper-V.

Course Outline
1 Managing PCs and devices in an enterprise environment

This module explains the most current trends and information related to desktop and device management in the enterprise. It also provides an overview of on-premises management compared to cloud-based IT management and services including an overview of Microsoft Enterprise Mobility + Security solution.

Managing Windows 10 in the enterprise
Managing a mobile workforce and supporting devices
Overview of Enterprise Mobility + Security
Lab: Planning for Windows 10 and device management in the enterprise
Selecting the appropriate products and technologies for device management

2 Traditional Windows 10 deployment in the enterprise

This module explains the various deployment scenarios for Windows 10 and the considerations to keep in mind while performing these deployments. It also explains how to deploy Windows 10 by using the Windows Assessment and Deployment Kit (WADK). This module also explains how to maintain Windows 10 by using DISM and Windows Configuration Designer. Additionally, it explains the different types of volume activation technologies and tools to manage activation.

Overview of Windows 10 enterprise deployment
Customizing enterprise deployments
Maintaining a Windows 10 installation
Volume license activation for Windows 10
Lab: Deploying Windows 10 by using Windows ADK tools
Creating a custom answer file and installing Windows 10
Creating and deploying a provisioning package
Generalizing and capturing Windows 10
Creating and updating an image

3 Managing Windows 10 sign-in and identity

This module defines identity and explains why identity is important in today’s network and cloud environments. It also provides an overview of Azure AD and how to extend on-premises identity to the cloud.

Overview of enterprise identity
Overview of Azure AD Premium P2
Extending identity to the cloud
Lab: Extending on-premises AD DS to Azure AD
Activating a trial Azure subscription and creating an Azure AD tenant
Managing Azure AD groups
Configuring and enabling directory synchronization
Joining Windows 10 to Azure AD
4 Managing user profiles and User State Virtualization

This module explains different types of user profiles in domain environment, how to manage user profiles and user state using tools such as the User State Migration Tool (USMT) and Microsoft User Experience Virtualization (UE-V).

Managing user profiles and user state
Configuring UE-V
Managing user state migration
Lab : Configuring user profiles and User State Virtualization
Configuring roaming user profiles and Folder Redirection
Implementing and using UE-V
Enterprise data roaming (optional)
Lab : Migrating user state by using USMT
Capturing user state on the source computer
Restoring user state on the destination computer

5 Managing desktop and application settings by using Group Policy

This module explains how to manage Group Policy inheritance, administrative templates, and common enterprise desktop settings. This module also explains how to apply Group Policy Preferences using targeting and filtering.

Managing Group Policy Objects
Configuring enterprise desktops by using Group Policy policies
Overview of Group Policy preferences
Lab : Configuring Group Policy policies and Group Policy preferences
Managing Windows 10 by using Group Policy
Configuring and applying Group Policy preferences

6 Managing devices in Office 365

In this module students will learn about Office 365 and its main features. The focus of this module is on device management by using mobile device management for Office 365.

Overview of Office 365
MDM for Office 365
Lab : Managing devices in Office 365 (part 1)
Obtaining an Office 365 subscription and enabling MDM
Working with DLP
Lab : Managing devices in Office 365 (part 2)
Configuring and testing MDM in Office 365
7 Managing PCs and devices by using Microsoft Intune

This module explains how to manage devices by using Intune and how to perform basic Intune administration. You will also learn how to work with device profiles, configure conditional access and manage software updates.

Overview of Intune
Managing devices by using Intune
Basic Intune administration
Working with Intune device profiles
Conditional access with Intune
Managing software updates
Lab: Implementing Intune
Adding Intune users
Delegating permissions and using the Azure portal
Enrolling Windows 10 to Intune
Using the Microsoft Intune portal
Lab: Managing devices with Intune
Working with Intune device profiles
Configuring conditional access
Configuring software updates

8 Configuring and using Microsoft Store for Business

This module explains how to implement Microsoft Store for Business and how to deploy apps from Microsoft Store for Business. It also provide an overview of Windows AutoPilot and explains how to use it for Windows 10 deployment.

Using Microsoft Store for Business for app deployment
Deploying Windows 10 by using Windows AutoPilot
Lab: Deploying apps and Windows 10 by using Microsoft Store for Business
Signing up for and managing Microsoft Store for Business
Using Microsoft Store for Business for deploying apps
Configuring Windows 10 by using Windows AutoPilot

9 Deploying apps and managing information access by using Intune

This module explains how to use Intune for app deployment and management. It also explains how to configure and use WIP.

App management by using Intune
App deployment and management
Working with WIP
Lab: Deploying apps and managing information access by using Intune
Deploying apps by using Intune
Configuring and using WIP
10 Managing data access for Windows-based devices

This module explains how to provide secure access to organizational data. Solutions discussed include Work Folders and RemoteApp programs. This module also explains how to configure and share data stored in Microsoft OneDrive for Business.

Overview remote data access solutions
Implementing Work Folders
Implementing cloud data access
Publishing and using RemoteApp programs
Lab: Implementing and using Work Folders
Configuring and deploying Work Folders
Using Work Folders
Lab: Managing data access by using OneDrive
Configuring and using OneDrive for Business
Lab: Publishing and using RemoteApp programs
Publishing RemoteApp programs
Accessing published RemoteApp programs

11 Configuring and managing Client Hyper-V

This module explains how to create virtual switches, virtual hard disks, and virtual machines by using Client Hyper-V.

Installing and configuring Client Hyper-V
Configuring virtual switches
Creating and managing virtual hard disks
Creating and managing VMs
Lab: Configuring and managing Client Hyper-V
Installing Client Hyper-V
Creating a virtual switch, a virtual hard disk, and a VM
Working with VMs, checkpoints, and nesting virtualization