

Windows 8

You will learn the skills you need to administer Windows 8.1 in a Windows Server domain environment and also provide secure, managed access to users from their non-domain joined Windows devices. You will learn how to install and customize Windows 8.1 operating systems and apps, integrate and control access to domains and cloud services, and migrate and synchronize settings across multiple devices. In addition, you will learn how to implement mobile security and customize configurations using Windows management tools including Group Policy and Windows Power Shell cmdlets. You will also learn how to configure user settings and profiles, local and remote network connectivity, Client Hyper-V, virtual apps, and Internet Explorer 11. Finally, you will learn how to optimize security and provide controlled access from Windows 8.1 PCs and devices to specified resources through Workplace Join services and Work Folders. This course is also designed to prepare certification candidates for Exam 70-687, Configuring Windows 8.1. As part of the learning experience, you will perform hands-on exercises in a virtual lab environment.

NOTE: This course is based on Windows 8.1 Enterprise Edition with domain services provided by Windows Server 2012 R2.

Course Outline

Module 1: Windows 8.1 in an Enterprise Environment

- Managing Windows 8.1 in an Enterprise Environment
- Overview of Windows 8.1

Module 2: Installing and Deploying Windows 8.1

- Preparing to Install and Deploy Windows 8.1
- Installing Windows 8.1
- Customizing and Preparing a Windows 8.1 Image for Deployment
- Volume Activation for Windows 8.1

Module 3: Tools Used for Configuring and Managing Windows 8.1

- Tools Used to Perform Local and Remote Management of Windows 8.1
- Using Windows Power Shell to Configure and Manage Windows 8.1
- Using Group Policy to Manage Windows 8.1

Module 4: Managing Profiles and User State in Windows 8.1

- Managing User Profiles
- Configuring User State Virtualization
- Migrating User State and Settings

Module 5: Managing Disks and Device Drivers

- Managing Disks, Partitions, and Volumes
- Maintaining Disks, Partitions, and Volumes
- Working with Virtual Hard Disks
- Installing and Configuring Device Drivers

Module 6: Configuring Network Connectivity

- Configuring IPv4 Network Connectivity
- Configuring IPv6 Network Connectivity
- Implementing Automatic IP Address Allocation
- Implementing Name Resolution
- Implementing Wireless Network Connectivity

Module 7: Configuring File Access and Printers on Windows 8.1 Clients

- Managing File Access
- Managing Shared Folders
- Configuring File Compression
- Configuring File Access
- Managing Printers

Module 8: Implementing Network Security

- Overview of Threats to Network Security
- Configuring Windows Firewall
- Securing Network Traffic by Using IPSec
- Guarding Windows 8.1 against Malware

Module 9: Configuring Resource Access for Domain-Joined Devices and Devices That Are Not Domain Members

- Configuring Domain Access for Windows 8.1 Devices
- Configuring Resource Access for Devices That Are Not Domain Members
- Configuring Workplace Join
- Configuring Work Folders

Module 10: Securing Windows 8.1 Devices

- Authentication and Authorization in Windows 8.1
- Applying Security Settings by Using Group Policy
- Securing Data with EFS and Bit Locker
- Configuring and Testing UAC

Module 11: Configuring Applications for Windows 8.1

- Application Deployment Options in Windows 8.1
- Managing Windows Store Apps
- Configuring Internet Explorer Settings
- Configuring Application Restrictions

Module 12: Optimizing and Maintaining Windows 8.1 Computers

- Optimizing Performance in Windows 8.1
- Managing the Reliability of Windows 8.1
- Managing Software Updates in Windows 8.1

Module 13: Configuring Mobile Computing and Remote Access

- Configuring Mobile Computers and Device Settings
- Overview of Direct Access
- Configuring VPN Access
- Configuring Remote Desktop and Remote Assistance

Module 14: Recovering Windows 8.1

- Backing Up and Restoring Files in Windows 8.1
- Recovery Options in Windows 8.1

Module 15: Configuring Client Hyper-V

- Overview of Client Hyper-V
- Creating Virtual Machines
- Managing Virtual Hard Disks
- Managing Checkpoints