Course 20689D:

Upgrading Your Skills to MCSA Windows 8

Course Details

Course Outline

Module 1: Windows 8.1 in an Enterprise Network Environment

This module explains how the features and related solutions in Windows 8.1 are used to support intranet, Internet, and non-domain joined Windows 8.1 clients. It also explains the changes to the Windows 8.1 user interface and how to perform customizations of the desktop and Start screen.

Lessons

- Managing Windows 8.1 in an Enterprise Environment

- Overview of Windows 8.1

After completing this module, students will be able to:
- Identify the features and solutions in Windows 8.1 that you can use to support domain member and non-member devices.

- Identify the changes to the Windows 8.1 user interface and customize the desktop and Start screen.

Module 2: Installing and Upgrading to Windows 8.1

This module explains how to identify hardware, software, and infrastructure readiness for installing Windows 8.1. It also describes the methods to manage volume activation in Windows 8.1 and how to migrate user state and settings when upgrading to Windows 8.1.

Lessons

- Preparing to Install and Deploy Windows 8.1

- Installing Windows 8.1

- Volume Activation for Windows 8.1

- Migrating User State and Settings

Lab : Installing Windows 8.1

- Planning to Install Windows 8.1

- Performing a Clean Installation of Windows 8.1

- Customizing the Windows 8.1 User Interface

Lab : Migrating User State by Using USMT

- Creating and Customizing USMT XML Files

- Capturing and Restoring User State to a Target Computer

After completing this module, students will be able to:
- Identify hardware, software, and infrastructure readiness for installing and deploying Windows 8.1.

- Install Windows 8.1.

- Describe the methods to manage volume activation in Windows 8.1.

- Migrate user state and settings when upgrading to Windows 8.1.

Module 3: Configuring and Managing Windows 8.1

This module explains the tools used for local and remote management of Windows 8.1. It also explains how to configure and manage common settings in Windows 8.1 by using Windows PowerShell, Group Policy, and Windows Intune.

Lessons
- Tools Used to Perform Local and Remote Management of Windows 8.1

- Using Windows PowerShell to Configure and Manage Windows 8.1

- Using Group Policy to Manage Windows 8.1

- Administering Windows 8.1 by Using Windows Intune

- Configuring User State Virtualization

Lab : Configure Windows 8.1 Settings by Using Management Tools

- Planning Management of Windows 8.1 Computers

- Managing Windows 8.1 by Using Group Policy

- Implementing Windows PowerShell Remoting

Lab : Configuring UE-V

- Implementing and Configuring UE-V

After completing this module, students will be able to:
- Describe the tools used to perform local and remote management of Windows 8.1.

- Administer Windows 8.1 by using Windows PowerShell.

- Implement Group Policy to manage client computers running Windows 8.1.

- Explain how to administer Windows 8.1 by using Windows Intune.

- Configure Microsoft User Experience Virtualization (UE-V).

Module 4: Implementing an Application Strategy for Windows 8.1

This module explains the application deployment options for Windows 8.1. It also explains how to install and manage Windows Store apps, secure Internet Explorer, and configure application restrictions.

Lessons

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

Lab : Managing Windows Store Apps

- Sideloading a Windows Store App

Lab : Troubleshooting an Internet Explorer Issue

- Resolving an Internet Explorer Issue

Lab : Configuring AppLocker

- Configuring AppLocker Rules
- Testing the AppLocker Rules

After completing this module, students will be able to:
- Describe the application deployment options for Windows 8.1.
- Install and manage Windows Store apps.
- Configure and secure Internet Explorer.
- Configure application restrictions.

Module 5: Managing Devices and Resource Access

This module explains the options for managing non-domain member devices in a Windows 8.1 environment. It also explains how to configure Workplace Join and Work Folders for non-domain member devices.

Lessons

- Options for Managing Non-Domain Member Devices
- Configuring Workplace Join
- Configuring Work Folders and Remote Business Data Removal

Lab : Configuring Resource Access for Non-Domain Member Devices

- Implementing Workplace Join

- Configuring Work Folders

After completing this module, students will be able to:
- Describe the options in Windows 8.1 for managing devices that are not domain members.

- Configure Workplace Join.

- Configure Work Folders and remote business data removal.

Module 6: Securing Windows 8.1 Devices

This module explains the methods used for authentication and authorization in Windows 8.1. It also explains how to secure data by using BitLocker and configure User Account Control (UAC) settings. It then explains how to configure Windows SmartScreen and Windows Defender to protect against malware. It also describes how to configure and implement Windows Firewall.

Lessons

- Authentication and Authorization in Windows 8.1

- Securing Data by Using BitLocker

- Configuring UAC

- Guarding Against Malware

- Configuring Windows Firewall

Lab : Securing Data by Using BitLocker

- Protecting Files with BitLocker

- Recovering BitLocker Encrypted Drives

- Creating a New BitLocker Password

Lab : Configuring Inbound and Outbound Firewall Rules

- Creating an Inbound Windows Firewall Rule

- Creating an Outbound Firewall Rule

After completing this module, students will be able to:
- Describe authentication and authorization in Windows 8.1.

- Select a suitable file encryption method to help secure Windows 8.1 files.

- Configure User Account Control (UAC).

- Configure malware protection.

- Configure Windows Firewall.

Module 7: Configuring Remote Access

This module explains how to implement a simple DirectAccess deployment. It explains the process for implementing an advanced DirectAccess infrastructure. It also explains how to enable and configure virtual private network (VPN) access.

Lessons

- Overview of DirectAccess

- Advanced DirectAccess Infrastructure

- Configuring VPN Access

Lab : Implementing DirectAccess by Using the Getting Started Wizard

- Configuring DirectAccess

- Validating the DirectAccess Deployment

After completing this module, students will be able to:

- Implement DirectAccess by using the Getting Started Wizard.

- Identify the components that are used in advanced DirectAccess infrastructure.

- Explain how to configure VPN access.

Module 8: Monitoring and Recovering Windows 8.1

This module explains how to monitor and troubleshoot performance in Windows 8.1. It describes the Windows 8.1 startup process and how to troubleshoot Windows 8.1 startup. It then explains the recovery options in Windows 8.1 and how to recover Windows 8.1.

Lessons

- Monitoring and Troubleshooting Performance in Windows 8.1

- Troubleshooting Windows 8.1 Startup

- Recovery Options in Windows 8.1

Lab : Identifying Performance Problems

- Troubleshooting a Performance Problem

Lab : Recovering Windows 8.1

- Exploring Recovery Options in Windows 8.1

- Introduce a Simulated Problem

- Resolving the Problem

After completing this module, students will be able to:

- Monitor and troubleshoot performance in Windows 8.1.

- Troubleshoot Windows 8.1 startup.

- Use the recovery options in Windows 8.1.

Module 9: Implementing Client Hyper-V in Windows 8.1

This module explains Client Hyper-V for Windows 8.1. It also explains how to manage virtual hard disks and checkpoints.

Lessons

- Overview of Client Hyper-V

- Creating Virtual Machines

- Managing Virtual Hard Disks

- Managing Checkpoints

Lab : Configuring Client Hyper-V

- Installing Client Hyper-V

- Creating a Virtual Switch, a Virtual Hard Disk, and a Virtual Machine

After completing this module, students will be able to:

- Describe Client Hyper-V in Windows 8.1.

- Create and work with virtual machines.

- Manage virtual hard disks.

- Manage checkpoints in Client Hyper-V.