

6292:Installing and Configuring Windows 7 Client

Course Outline**Module 1: Installing, Upgrading, and Migrating to Windows 7**This module explains how to install,upgrade and migrate to Windows 7. It also describes the key features, editions, and hardware requirements of Windows

7.Lessons

- ☒ Preparing to Install Windows 7
- ☒ Performing a Clean Installation of Windows 7
- ☒ Upgrading and Migrating to Windows 7
- ☒ Performing Image-based Installation of Windows 7
- ☒ Configuring Application Compatibility

Lab : Installing and Configuring Windows 7

- ☒ Migrating Settings by using Windows Easy Transfer
- ☒ Configuring a Reference Image of Windows 7
- ☒ Configuring a Reference Image

After completing this module, students will be able to:

- ☒ Describe the key features, editions, and hardware requirements of Windows 7.
- ☒ Perform a clean installation of Windows 7
- ☒ Upgrade and Migrate to Windows 7 from an earlier version of Windows.
- ☒ Perform an image-based installation of Windows 7
- ☒ Resolve common application compatibility issues.

Module 2: Configuring Disks and Device DriversThis module examines how to configure disks, partitions, volumes, and device drivers to enable Windows 7 to function as desired.**Lessons**

- ☒ Partitioning Disks in Windows 7
- ☒ Managing Disk Volumes
- ☒ Maintaining Disks in Windows 7
- ☒ Installing and Configuring Device Drivers

Lab : Configuring Disks and Device Drivers

- ☒ Configuring Disks
- ☒ Configuring Disk Quotas (Optional)
- ☒ Updating a Device Driver

After completing this module, students will be able to:

- ☒ Configure disk partitions on a Windows 7 client computer
- ☒ Create and manage disk volumes
- ☒ Manage file system fragmentation and disk quotas
- ☒ Install and configure device drivers

Module 3: Configuring File Access and Printers on Windows 7 Client ComputersThis module explains how to manage access to shared folders and printers on a computer running Windows 7. Specifically, it describes how to share and secure folders, configure folder compression, and how to install, configure, and administer printing.

Lessons

- ☒ Overview of Authentication and Authorization
- ☒ Managing File Access in Windows 7
- ☒ Managing Shared Folders
- ☒ Configuring File Compression
- ☒ Managing Printing

Lab : Configuring File Access and Printers on Windows 7 Client Computers

- ☒ Create and Configure a Public Shared Folder for all Users
- ☒ Configuring Shared Access to Files for Specific Users
- ☒ Creating and Sharing a Printer

After completing this module, students will be able to:

- ☒ Describe authentication and authorization
- ☒ Manage file access on a Windows 7 client computer
- ☒ Create and manage shared folders
- ☒ Configure file compression
- ☒ Install, configure, and administer printers

Module 4: Configuring Network Connectivity This module explains both IPv4 and IPv6 network connectivity. It also describes how to implement automatic IP Address Allocation and troubleshoot network connectivity.

Lessons

- ☒ Configuring IPv4 Network Connectivity
- ☒ Configuring IPv6 Network Connectivity
- ☒ Implementing Automatic IP Address Allocation
- ☒ Overview of Name Resolution
- ☒ Troubleshooting Network Issues

Lab : Configuring Network Connectivity

- ☒ Configuring IPv4 Addressing
- ☒ Configuring IPv6 Addressing
- ☒ Troubleshooting Network Connectivity

After completing this module, students will be able to:

- ☒ Configure IPv4 network connectivity.
- ☒ Configure IPv6 network connectivity.
- ☒ Implement automatic IP address allocation.
- ☒ Troubleshoot common network related issues by using the tools available in Windows 7.

Module 5: Configuring Wireless Network Connections This module describes key wireless network technologies and how to configure wireless network components and the Windows 7 elements that are necessary to access wireless networks.

Lessons

- ☒ Overview of Wireless Networks
- ☒ Configuring a Wireless Network

Lab : Configuring Wireless Network Connections

- ☒ Determining the appropriate configuration for a wireless network
- ☒ Troubleshooting Wireless Connectivity

After completing this module, students will be able to:

- ☒ Describe the standards and technologies related to wireless network connections.
- ☒ Configure a wireless network connection.

Module 6: Securing Windows 7 Desktops This module describes how to make a Windows 7 computer more secure while ensuring usability is not sacrificed in the process. Specifically, it describes Windows Firewall, User Account Control, Windows Defender, and Security in Internet Explorer 8.

Lessons

- ☒ Overview of Security Management in Windows 7
- ☒ Securing a Windows 7 Client Computer by Using Local Security Policy Settings
- ☒ Securing Data by Using EFS and BitLocker
- ☒ Configuring Application Restrictions
- ☒ Configuring User Account Control
- ☒ Configuring Windows Firewall
- ☒ Configuring Security Settings in Internet Explorer 8
- ☒ Configuring Windows Defender

Lab : Configuring UAC, Local Security Policies, EFS, and AppLocker

- ☒ Using Action Center
- ☒ Configuring Local Security Policies
- ☒ Encrypting Data
- ☒ Configuring AppLocker

Lab : Configuring Windows Firewall, Internet Explorer 8 Security Settings, and Windows Defender

- ☒ Configuring Windows Firewall
- ☒ Configuring Internet Explorer 8 Security
- ☒ Configuring Windows Defender

After completing this module, students will be able to:

- ☒ Explain the security management features of Windows 7.
- ☒ Configure local security policy settings on a Windows 7 client computer.
- ☒ Secure data by using EFS and BitLocker.
- ☒ Configure application restrictions by using AppLocker.
- ☒ Configure user account control settings.
- ☒ Configure Windows Firewall on a Windows 7 client computer.
- ☒ Configure security-related settings in Internet Explorer to help protect a Windows 7 client computer that is connected to the Internet.

☒ Configure Windows Defender to help protect a Windows 7 client computer against malicious software.

Module 7: Optimizing and Maintaining Windows 7 Client Computers This module describes how to use the monitoring and configuration tools to obtain information about Windows 7 performance and how to troubleshoot performance and reliability problems. **Lessons**

☒ Maintaining Performance by Using the Windows 7 Performance Tools

☒ Maintaining Reliability by Using the Windows 7 Diagnostic Tools

☒ Backing Up and Restoring Data by Using Windows Backup

☒ Restoring a Windows 7 System by Using System Restore Points

☒ Configuring Windows Update

Lab : Optimizing and Maintaining Windows 7 Client Computers

☒ Monitoring System Performance

☒ Backing Up and Restoring Data

☒ Configuring System Restore Points

☒ Configuring Windows Update

After completing this module, students will be able to:

☒ Maintain the performance of a Windows 7 client computer by using performance management tools.

☒ Maintain reliability of a Windows 7 client computer by using the diagnostic tools.

☒ Back up and restore data on a Windows 7 client computer by using Windows Backup.

☒ Restore a Windows 7 system by using system restore points.

☒ Configure Windows Update on a Windows 7 client computer.

Module 8: Configuring Mobile Computing and Remote Access in Windows 7 This module explains how to configure mobile devices and remote access. It also discusses DirectAccess and BranchCache which are new for Windows 7.

Lessons

☒ Configuring Mobile Computer and Device Settings

☒ Configuring Remote Desktop and Remote Assistance for Remote Access

☒ Configuring DirectAccess for Remote Access

☒ Configuring BranchCache for Remote Access

Lab : Configuring Mobile Computing and Remote Access in Windows 7

☒ Creating a Sync Partnership

☒ Configuring Power Options

☒ Enabling Remote Desktop

☒ Enabling BranchCache

After completing this module, students will be able to:

☒ Configure mobile computer and device settings on a Windows 7 client computer.

☒ Configure Remote Desktop and Remote Assistance on a Windows 7 client computer.

☒ Configure DirectAccess on a Windows 7 client computer for remote access.

☒ Configure BranchCache on a branch office Windows 7 client computer.