Course 6292A:

Installing and Configuring Windows 7 Client

Course Details

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 Drivers

This 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 Computers

This 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.