

Course Outline

6292-Installing and Configuring Windows 7 Client



Duration: 3 days (18 hours)

Target Audience:

This course is intended for IT professionals who are interested in:

- Expanding their knowledge base and technical skills about Windows 7 Client.
- Acquiring deep technical knowledge of Windows 7.
- Learning the details of Windows 7 technologies.
- Focusing on the "how to" associated with Windows 7 technologies.

Most of these professionals use some version of Windows client at their work place and are looking at new and better ways to perform some of the current functions.

Prerequisites:

Before attending this course, students must have:

- Experience installing PC hardware and devices.
- Basic understanding of TCP/IP and networking concepts.
- Basic Windows and Active Directory knowledge.
- The skills to map network file shares.
- Experience working from a command prompt.
- Basic knowledge of the fundamentals of applications. For example, how client computer applications communicate with the server.
- Basic understanding of security concepts such as authentication and authorization.
- An understanding of the fundamental principles of using printers.

Topics Covered:

- Module 1: Installing, Upgrading, and Migrating to Windows 7
 - 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

- 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

- 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

- 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

- 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

- 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

- 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

- 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.