



Installing and Configuring Windows 7 Client

MOC-6292

Course Description:

This three-day instructor-led Installing and Configuring Windows 7 Client is intended for IT professionals who are interested in expanding their knowledge base and technical skills about Windows 7 Client. In this course, students learn how to install, upgrade, and migrate to Windows 7 client. Students then configure Windows 7 client for network connectivity, security, maintenance, and mobile computing. This course helps students prepare for the Exam 70-680, TS: Windows 7, Configuring.

Course Objectives:

Upon completion of the Installing and Configuring Windows 7 Client course, students will be able to:

- Perform a clean installation of Windows 7, upgrade to Windows 7, and migrate user-related data and settings from an earlier version of Windows
- Configure disks, partitions, volumes, and device drivers to enable a Windows 7 client computer
- Configure file access and printers on a Windows 7 client computer
- Configure network connectivity on a Windows 7 client computer
- Configure wireless network connectivity on a Windows 7 client computer
- Secure Windows 7 client desktop computers
- Optimize and maintain the performance and reliability of a Windows 7 client computer
- Configure mobile computing and remote access settings for a Windows 7 client computer

Prerequisites:

- 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

Audience:

Students who are looking to:

- 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

Course Duration:

3 Days

Course Topics:

I. 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

II. 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

III. 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

IV. 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

V. 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

VI. 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

VII. 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
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VIII. 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

