



## Installing and Configuring Windows 7 Client

<b>Days:</b>	<b>3</b>
<b>Format:</b>	<b>Instructor-Led</b>
<b>Certification Exams:</b>	<b>70-680</b>
<b>Certification Track:</b>	<b>None</b>

### Recommended Course Sequence

Knowledge of prerequisites  
noted below.

*Course content is subject to change  
without notice.*

### Course Description:

This three-day instructor-led course 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.

### Target Student:

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.

### Delivery Method:

Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

### 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.

# Installing and Configuring Windows 7 Client

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## At Course Completion:

Upon successful completion of this 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.

## 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
<ul style="list-style-type: none"><li>■ Preparing to Install Windows 7</li><li>■ Performing a Clean Installation of Windows 7</li><li>■ Upgrading and Migrating to Windows 7</li><li>■ Performing Image-based Installation of Windows 7</li><li>■ Configuring Application Compatibility</li></ul>
Lab : Installing and Configuring Windows 7
<ul style="list-style-type: none"><li>■ Migrating Settings by using Windows Easy Transfer</li><li>■ Configuring a Reference Image of Windows 7</li><li>■ Configuring a Reference Image</li></ul>

### 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
<ul style="list-style-type: none"><li>■ Partitioning Disks in Windows 7</li><li>■ Managing Disk Volumes</li><li>■ Maintaining Disks in Windows 7</li><li>■ Installing and Configuring Device Drivers</li></ul>
Lab : Configuring Disks and Device Drivers
<ul style="list-style-type: none"><li>■ Configuring Disks</li><li>■ Configuring Disk Quotas (Optional)</li><li>■ Updating a Device Driver</li></ul>

# Installing and Configuring Windows 7 Client

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## 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
<ul style="list-style-type: none"><li>■ Overview of Authentication and Authorization</li><li>■ Managing File Access in Windows 7</li><li>■ Managing Shared Folders</li><li>■ Configuring File Compression</li><li>■ Managing Printing</li></ul>
Lab : Configuring File Access and Printers on Windows 7 Client Computers
<ul style="list-style-type: none"><li>■ Create and Configure a Public Shared Folder for all Users</li><li>■ Configuring Shared Access to Files for Specific Users</li><li>■ Creating and Sharing a Printer</li></ul>

## 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
<ul style="list-style-type: none"><li>■ Configuring IPv4 Network Connectivity</li><li>■ Configuring IPv6 Network Connectivity</li><li>■ Implementing Automatic IP Address Allocation</li><li>■ Overview of Name Resolution</li><li>■ Troubleshooting Network Issues</li></ul>
Lab : Configuring Network Connectivity
<ul style="list-style-type: none"><li>■ Configuring IPv4 Addressing</li><li>■ Configuring IPv6 Addressing</li><li>■ Troubleshooting Network Connectivity</li></ul>

## 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
<ul style="list-style-type: none"><li>■ Overview of Wireless Networks</li><li>■ Configuring a Wireless Network• Troubleshooting Network Issues</li></ul>
Lab : Configuring Wireless Network Connections
<ul style="list-style-type: none"><li>■ Determining the appropriate configuration for a wireless network</li><li>■ Troubleshooting Wireless Connectivity</li></ul>

# Installing and Configuring Windows 7 Client

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## 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
<ul style="list-style-type: none"><li>■ Overview of Security Management in Windows 7</li><li>■ Securing a Windows 7 Client Computer by Using Local Security Policy Settings</li><li>■ Securing Data by Using EFS and BitLocker</li><li>■ Configuring Application Restrictions</li><li>■ Configuring User Account Control</li><li>■ Configuring Windows Firewall</li><li>■ Configuring Security Settings in Internet Explorer 8</li><li>■ Configuring Windows Defender</li></ul>
Lab : Configuring UAC, Local Security Policies, EFS, and AppLocker
<ul style="list-style-type: none"><li>■ Using Action Center</li><li>■ Configuring Local Security Policies</li><li>■ Encrypting Data</li><li>■ Configuring AppLocker</li></ul>
Lab : Configuring Windows Firewall, Internet Explorer 8 Security Settings, and Windows Defender
<ul style="list-style-type: none"><li>■ Configuring Windows Firewall</li><li>■ Configuring Internet Explorer 8 Security</li><li>■ Configuring Windows Defender</li></ul>

# Installing and Configuring Windows 7 Client

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## 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
<ul style="list-style-type: none"><li>■ Maintaining Performance by Using the Windows 7 Performance Tools</li><li>■ Maintaining Reliability by Using the Windows 7 Diagnostic Tools</li><li>■ Backing Up and Restoring Data by Using Windows Backup</li><li>■ Restoring a Windows 7 System by Using System Restore Points</li><li>■ Configuring Windows Update</li></ul>
Lab : Optimizing and Maintaining Windows 7 Client Computers
<ul style="list-style-type: none"><li>■ Monitoring System Performance</li><li>■ Backing Up and Restoring Data</li><li>■ Configuring System Restore Points</li><li>■ Configuring Windows Update</li></ul>

## 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
<ul style="list-style-type: none"><li>■ Configuring Mobile Computer and Device Settings</li><li>■ Configuring Remote Desktop and Remote Assistance for Remote Access</li><li>■ Configuring DirectAccess for Remote Access</li><li>■ Configuring BranchCache for Remote Access</li></ul>
Lab : Configuring Mobile Computing and Remote Access in Windows 7
<ul style="list-style-type: none"><li>■ Creating a Sync Partnership</li><li>■ Configuring Power Options</li><li>■ Enabling Remote Desktop</li><li>■ Enabling BranchCache</li></ul>