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**Duration:** 3 days

## Overview

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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.

## Audience Profile

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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

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- 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.

## Delegates will learn how to

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- 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

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### 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.

- 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; Deploying a Windows 7 Image)

## 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.

- 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; Updating a Device Driver)

## 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.

- 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 (Creating and Configuring a Shared Folder for All Users; Configuring Shared Access to Files for Specific Users; Creating and Sharing a Printer)

## 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.

- Configuring IPv4 Network Connectivity
- Configuring IPv6 Network Connectivity
- Implementing Automatic IP Address Allocation
- Troubleshooting Network Issues
- Lab : Configuring Network Connectivity (Configuring IPv4 Addressing; Configuring IPv6 Addressing; Troubleshooting Network Connectivity)

## 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.

- Overview of Wireless Networks
- Configuring a Wireless Network
- Lab : Configuring Wireless Network Connections (Determining the appropriate configuration for a wireless network; Troubleshooting Wireless Connectivity)

## 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.

- 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, BitLocker, 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)

### **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.

- 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)

### **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.

- 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 (Configuring Power Options; Configuring Remote Desktop; Configuring DirectAccess; Configuring BranchCache)

### **Related Certifications**

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This course forms part of the following certification track(s):

- MCTS Windows 7, Configuring