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## Course 6292A:

### Installing and Configuring Windows 7 Client

Length:	3 Day(s)
Published:	October 22, 2009 (in development)
Language(s):	English, French, German, Japanese, Portuguese (Brazil)
Audience(s):	IT Professionals
Level:	200
Technology:	Windows 7
Type:	Course
Delivery Method:	Instructor-led (classroom)

#### **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.



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- › 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



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- › 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.



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- › 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**



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- › 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



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### **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



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computer.

- › Configure DirectAccess on a Windows 7 client computer for remote access.
- › Configure BranchCache on a branch office Windows 7 client computer.

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.