Available Dates: **Call for Availability**
Class Length: **5 day**
Cost: **$2,495**
Email Computer Visions about this class

Class Outline:

Description:

This five-day instructor-led course provides students with the knowledge and skills to configure and administer Microsoft Windows 7 as a standalone installation or in a corporate environment as a part of a Windows Active Directory domain. It can also be used to prepare for exam 70-680 TS: Windows 7, Configuring.

The contents of the course provide students with the ability to create and deploy images, configure hardware and software, configure networking and backup and restore system information. The course also provides a complete set of exercises on installing and configuring DirectAccess in the classroom.

Course Outline:

Module 1: Installing Windows 7

This module explains the various editions of Windows 7 and some of the core features of the operating system. Students will learn the hardware requirements and upgrade paths to Windows 7. The module will also show students how to prepare an image of the operating system for deployment.

Lessons
•Introduction to Windows 7
•Installing Windows 7 Using Image-Based Installation
•Migrating User Settings

Module 2: Configure Hardware and Software

This module explains how to install and configure hardware devices on Windows 7. Users will learn how to add hardware devices, install and update drivers and configure options. It also teaches the student how to configure application compatibility and how to lock down a Windows 7 computer using AppLocker.

Lessons
•Configure Devices
•Configure Application Compatibility

Module 3: Configure the Network

This module explains how to configure the networking aspects of Windows 7. Students will be introduced to configuration of general network settings including TCP/IP network configuration using IPv4 and IPv6 settings. They will also learn about wireless network configuration. Students will also learn how to share resources across the network, configure the Windows Firewall for security, configure remote management using Remote Desktop and Remote Assistance, and troubleshoot network connectivity issues.

Lessons
•Configure General Network Settings
•Managing Wireless Networks
•Sharing Resources
•Configure TCP/IP
•Troubleshooting Network Connectivity
•Configure Windows Firewall
•Configure Remote Management

Module 4: Sharing and Securing Resources

This module explains how to implement sharing of resources on the network with Windows 7 computers. Topics covered will introduce the student to share permissions and NTFS permissions. Students will also learn how configure and implement a HomeGroup using Windows 7 computers.

Once the student understands how to share resources and make them available on the network, they will be introduced to securing the computer through the use of the User Account Control (UAC) features of Windows 7. They

will also learn how to work with authentication and authorization to the computer and the use of digital certificates. Finally, the students will learn about the BranchCache feature of Windows 7 and Windows Server 2008 R2.

Lessons
•Configure Shared Resources
•Configuring HomeGroup Settings
•Configure User Account Control (UAC)
•Configure Authentication and Authorization
•Configure BranchCache

Module 5: Windows 7 and Mobile Computing

This module will teach the student how to work with the features in Windows 7 for mobile users. Students will learn how to configure and implement BitLocker and BitLockerToGo for securing files on hard drives and removable storage devices. Mobile users often make use of offline files and this module will introduce students to offline files in Windows and how to configure for offline use and resolve synchronization issues. Students will also learn how to configure other mobility options such as power settings and remote connections such as dial-up and VPN.
Finally students will learn about a new feature in Windows 7 for remote users known as DirectAccess. This new technology eliminates the need to create and configure VPN connections over Remote Access Services. Instead DirectAccess allows secure connections directly from the client computer over the Internet.
DirectAccess requires careful configuration and specific components to be implemented. Students will learn how to configure a complete DirectAccess implementation with the final lab allowing them the opportunity to perform all the setup and configuration necessary to make DirectAccess work including a simulated Internet environment.

Lessons
•Configure BitLocker and BitLocker ToGo
•Configuring DirectAccess
•Configure Mobility Options
•Configure Offline Files
•Configure Remote Connections

Module 6: Monitoring and Maintaining Windows 7

This module will teach the student how to configure updates in Windows 7 to ensure their computers are getting the necessary updates to keep them secure and performing at peak efficiency. Students will also learn how to monitor the system through the use of various tools to determine where performance issues exist and then how to configure performance settings to increase responsiveness.

The module also discusses how to manage the disks on a computer including how to create and manage partitions using Disk Management and how to create virtual hard drives (VHDs).

Lessons
•Configure Updates
•Manage Disks
•Monitor Systems
•Configure Performance Settings

Module 7: Backup and Recovery

This module will teach the student how configure backup and restore for data files on the computer. Students will also learn about System Restore points and System Recovery options. The labs reinforce the use of system recovery options and restore points by demonstrating the use of each to protect data and other files.

Lessons
•Configure Backup
•Configuring System Recovery Options