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Computer Visions Course Outline

Get What You Want

We offer highly customizable group training courses: desktop applications, web development, networking & operating systems, technical certification, professional development & skills, help desk.

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50292: Maintaining and Administering Windows 7 in the Enterprise

Description:

This five-day instructor-led course provides students with the knowledge and skills to successfully install, maintain, and troubleshoot Windows 7 computers. Through practical labs, you'll get invaluable experience with installation and upgrades, remote access, and the new desktop environment. You will learn how Windows 7 allows for vast improvements to security, overall system performance, and deployment—a robust combination unparalleled in the market.

Course Outline:

Module 1: Introduction to Windows 7

This module explains how to perform a clean installation of Windows 7 as well as an upgrade. This module will provide a high level overview of the Windows desktop operating product line. It describes the Windows 7 product line and their features. Finally, this section describes the Windows Server 2008 R2 deployment technologies that you can use with Windows 7.

Lessons

Evolution of the Windows Desktop Operating System

Windows 7 Products and Features

Windows 7 Hardware Requirements and Software Compatibility Tools

Windows 7 Boot Process

Windows 7 New Installations and Upgrades

Windows Server Deployment Technologies for Windows 7

Lab : Installing Windows 7 and Upgrading Windows 7 into Virtual Machine Technologies

Perform a Clean of Windows 7

Navigate, Identify, and Interpret the BCD

Using Easy Transfer

Module 2: Configuring and Managing the Windows 7 Desktop

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This module explains how to analyze the new features of the Windows 7 desktop. It also explores the new methodology for performing old tasks in an efficient manner. Understanding fully the Windows 7 desktop will allow you, as a support professional, to better serve your clients because the bulk of client issues stem from basic navigation and basic configuration troubleshooting.

Lessons

Display Driver Technologies: Windows Vista vs. Windows 7

Desktop Views: Windows Vista vs. Windows 7

Personalizing the Desktop to Your Requirements

Using the Control Panel Utilities to Personalize the Desktop

Lab : Configuring the Windows 7 Desktop

Computer Personalization

Control Panel Navigation

Changing Themes

Module 3: Customizing the Windows 7 User Interface

This module explains how to create and manage Windows 7 user profile.

This module introduces the features of Windows 7 user interface and discusses in depth the Windows 7 Aero graphics package . This module will take you through the steps of using Windows 7 Search and Indexing Service, including how to conduct and save searches.

Lessons

Windows 7 Aero Graphics Package Overview

Windows 7 Aero Features

Windows 7 User Profiles

Windows 7 Ease of Access Center

Windows 7 Search and Indexing Service

Lab : Working with Windows 7 Ease of Access Center and User Profile settings

Creating Users and Manipulating their Profiles (.MAN)

Configure and Use Windows 7 Aero Features

Working with File and Folder Options

Using the Ease of Access Center

Configuring and Managing Windows Search

Configuring Custom Searches

Module 4: Windows 7 in the Workgroup Environment

This module explains how to leverage the Windows 7 workgroup features so that you will be able to support the largest segment of computer networks in the market place. In this module you will be introduced to two different network types, the Workgroup and the Domain.

Lessons

Windows Workgroups and Active Directory Domains

Joining a Windows 7 Workgroup

Configuring a Windows 7 HomeGroup

Windows 7 Data Sharing Methods

Windows 7 Libraries

Lab : Configuring Windows 7 for the Workgroup

Configuring the Homegroup

Create a New Library and Share it with the Homegroup

Use the Homegroup Troubleshooter

Using NTFS Encryption

Backing Up and Restoring Your Encryption Key

Module 5: Windows 7 Networking and LAN Connectivity

This module explains how to successfully manage and monitor your networks so they can operate smoothly and efficiently. This module introduces you to the Windows 7 networking technologies as well as networking in general.

Lessons

Data Networking Defined

Windows 7 Control Panel: Network and Sharing Center Features

Windows DirectAccess Networks

Fundamentals of TCP/IP with Windows 7

Windows Enhancements to IP Version 6

Role of Windows 7 within a Branch Cache Network

Role of Network Location Policies with Windows 7

Lab : The Windows 7 LAN

Configure Windows 7 Branch Cache

Using the NETSH Command Line Utility to Configure Branch Cache

Module 6: Implementing Windows 7 in a Server 2008 R2 Active Directory Environment

This module explains how to utilize the server side technologies that are available with Windows Server 2008 R2 and the enterprise abilities of Windows 7. This information will help you understand the things that you can do in your own network to make your job easier and make your data that much more available and secure.

Lessons

DNS for Windows Server

Windows Server 2008 R2 Active Directory

Windows 7 ADMX Templates Windows 7

Group Policy Objects and Types

Lab : Windows 7 in the Domain

Join the Windows Server 2008 R2 Domain

Configure a Software Restriction Policy Path Rule
Configure a Software Restriction Policy HASH Rule
Configure Server 2008 R2 and Windows 7 Advanced Auditing
Configure the RSAT Tools
Using the RSAT Tools
Configure Default AppLocker Rules

Module 7: Windows 7 Remote Capabilities and Utilities

This module explains how to connect remote workers to your branch office as well as connect to other Windows 7 machines for helpdesk type duties. You will discuss RSAT (Remote Server Administration Tools), which allows administrators to use their Windows 7 workstations to manage their remote servers with all of the necessary tools.

Lessons

Windows 7 Virtual Private Networking Technologies
Configuring the VPN Client and Connecting to the Server
Windows 7 DirectAccess
RDP Version 7 Client Features
Lab : Configure and Manage Remote Access
Configure Windows 7 and Server 2008 R2 VPN Access
Configure Routing and Remote Access
Configure a Windows 7 VPN Connection
Connect to a Server 2008 R2 RRAS Server with VPN
Create a VPN Shortcut
Create an RDP Connection and Connect to a Server 2008 R2 Server
Configure the Windows Firewall to Support Remote Technologies

Module 8: Implementing Windows 7 for Mobile Computers

This module explains how to understand and manage your mobile work force and challenges they face on a daily basis with Windows 7.

Lessons

Windows 7 Power Management Options
Windows 7 Backup and Restore Center
Windows 7 System Image Backup
Windows 7 Offline Files and Folders Utility
BitLocker for the Mobile Platform
Windows 7 Sync Center
Lab : Configure Notebook and Mobility Features
Create a Custom Windows 7 Power Plan
Configure all Power Plan Options
Use Group Policy to Pass Power Plans to Organizational Units
Using the Windows 7 Backup and Restore Center
Configure and Execute Data Backups

Configure and Execute Data Restorations
Configure Offline Files and Folders and the Sync Center
Configure and Use "Previous Versions"

Module 9: Implementing Windows 7 Local, Network and Internet Protection

This module explains how to use the various technologies that you can employ to secure your Windows 7 installations, like User Access Control, NAP (Network Access Protection), the Windows firewall and a host of other tools.

Lessons

Advanced User Account Control Settings
Troubleshooting the UAC
Server 2008 R2 Network Access Policy Engine
Configuring the Windows 7 Firewall
File and Registry Virtualization
Windows 7 Service Hardening
Windows Defender
Windows 7 Dynamic Updates from Microsoft
Windows 7 SUS for Updates Features
Lab : Configuring and Protecting Data Locally and over the Network
Configure and Use the User Account Control Mechanism
Promote a Windows Server 2008 R2 Server to a Domain Controller
Configure Network Access Protection on the Server 2008 R2 Server
Configure Software Update Services Location

Module 10: Working with the Windows 7 NTFS File System and Its Features

This module explains how to use NTFS and its corresponding features. You will explore the world of the SID (Security Identifier), including the NTFS permissions, Share permissions versus NTFS permissions.

Lessons

NTFS Features
NTFS Security Principals and Identifiers
Assigning NTFS Permissions
Secondary Logon Service
Windows 7 Encryption
Lab : Using Windows 7 NTFS to Technologies Secure your Data
Configure NTFS Security
Use the Effective Permissions Utility

Module 11: Troubleshooting, Monitoring, and Fine-Tuning Windows 7 for the Workplace

This module explains how to use the Windows 7 Reliability Monitor, the Performance Monitor, and the other utilities to maintain and monitor your Windows 7 network.

Lessons

Windows 7 Reliability Monitor

Windows 7 Performance Monitor

Windows 7 Troubleshooting Tools

Windows 7 Task Manager

Windows 7 Problem and Reporting Solutions Utility

Windows 7 Performance Features

Other Features of the System Properties Dialog Box

Windows 7 Administrative Tools

Lab : Configure, Troubleshoot, and Monitor Windows 7

Use Reliability Monitor

Use and Navigate the Performance Monitor Utility

Adding Performance Monitor Counters and Manipulating the Performance Monitor Graphs

Create and Use Data Collector Sets (User-Defined and System-Defined)

Using PowerShell Version 2.0

Module 12: Running and Troubleshooting Applications on Windows 7

This module explains how to use Windows 7 and other stand alone utilities for application compatibility, remediation, and mitigation.

Lessons

Application Compatibility Tools and Toolkit

Windows 7 Performance Variables

Microsoft Virtual PC and XP Mode

Windows 7 Virtual Hard Drive Mounting Technologies

Lab : Working with Windows 7 Applications

Run and Configure the Program Compatibility Wizard

Install the Application Compatibility Toolkit

Run the Standard User Analyzer

Create, Mount, and Boot a .VHD file

Use Windows VPC XP Mode

Install and Use XP Mode Applications

Module 13: Configuring Internet Explorer 8

This module explains how to set up and configure Internet Explorer 8. This module will give you an understanding of the philosophy behind Internet Explorer 8 and be familiar with some of the new and exciting features of IE8.

Lessons

Setting Up and Configuring IE8

IE8 Menus and Commands

Lab : Configure and Use Internet Explorer 8

Configure IE8 During Its First Run

Configure and Use Internet Explorer 8 Search Features

Configure Internet Explorer Accelerators

Configure and Use Internet Explorer Privacy Filters

Configure Internet Explorer 8 Web Slices

After completing this module, students will be able to:

Configure the Internet Explorer 8 startup options

Describe the purpose of the search features

Explain the purpose of the Internet Explorer Accelerators

Configure the Internet Explorer Accelerators

Describe the features of the Internet Explorer Privacy utilities

Configure the Internet Explorer Privacy features

Explain the purpose of the Internet Options configurations and tabs

Use the Internet Options dialog box to configure Internet Explorer 8