

ASM Educational Center (ASM) Est. 1992

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MCTS Windows 7 Configuring Certification



Course Outline

Chapter 01 - Basic Windows 7 Installation

Lesson: Installation Options New Features of Windows 7 Minimum Hardware Requirements Why Use 64-bit Windows 7 Installation Options

Windows 7 Offerings

Lesson: Choosing To Do the Clean Install

Discussion: Considerations for a Clean Installation

Discussion: Common Installation Errors Ways To Do A Clean Installation

Demo - Configuring the Computer Name and

Domain/Workgroup Settings

Chapter 01 Review

Chapter 02 - Advanced Windows 7 Installation

Lesson: Performing an Image Installation What is Windows Imaging File Format?

Which Tools You Can Use

The Process for Image-Based Installation

Using SysPrep

Capturing and Applying the Installation Image by

Using ImageX

Migrating User Data and Settings by Using USMT 4.0

Configuring VHDs

Lesson: Doing an Upgrade or Migration to Windows 7

How to Choose Migration or Upgrade

Upgrade Paths

Determining the Feasibility of an Upgrade Using

Windows Upgrade Advisor Steps to Upgrade to Windows 7

Ways to Migrate User Data and Settings

Steps to Migrate to Windows 7

Migrating User Settings and Data by Using WET Lesson: Planning for Application Compatibility

Common Compatibility Problems
Common Mitigation Methods

Updating Shims Chapter 02 Review

Chapter 03 - Understanding Disk Types and

File Systems

Lesson: Windows 7 Disk Types and Formats

The MBR Disk The GPT Disk

Tools for Disk Management

Demo - Converting an MBR Partition to a GPT Partition

Lesson: Managing Hard Drives with Volumes

A Simple Volume

Demo - Creating a Simple Volume

What are Spanned and Striped Volumes? Demo - Creating Spanned Volumes Demo - Creating Striped Volumes

Why Would you Resize a Volume?

Demo - Resizing a Volume Lesson: Hard Drive Maintenance

Disk Fragmentation

How to Defragment a Disk

Disk Quotas

Demo - Configuring Disk Quotas

Chapter 03 Review

Chapter 04 - Network Configuration

Lesson: IP Addressing

Understanding the IPv4 Address Understanding the Subnet Mask Public and Private Address Space

Why the Default Gateway

Demo - Configuring an IPv4 Address

Types of Computer Names

Methods for Resolving Computer Names

Why IPv6

Windows 7 Support for IPv6

Understanding the IPv6 Address Space

Types of IPv6 Address Scopes

Demo - Configuring an IPv6 Address

Lesson: Auto IP Configuration

Auto Configuration of IPv4 Settings

Auto Configuration of IPv6 Settings

Demo - Configuring a Computer to Obtain an IPv4

Address Dynamically

Troubleshooting Client-Side DHCP Issues

Lesson: Troubleshooting Networking

Troubleshooting Tools

Troubleshooting Methodology



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Demo - How to Troubleshoot Network-Related

Problems

Lesson: Introducing Wireless Networks

Describing a Wireless Network Technologies Used in WiFi How Do You Secure WiFi?

Lesson: Connecting Windows 7 to the Wireless

Network

Configuring the Hardware Wireless Network Settings

How to Improve WiFi Signal Strength Troubleshooting WiFi Connections

Chapter 04 Review

Chapter 05 - Sharing Files, Folders, and Printers

Lesson: Planning for Authentication and Authorization Understanding Authentication and Authorization The Process of Authentication and Authorization

New Authentication Features Lesson: Securing File Access

NTFS Permission Permission Inheritance

Demo - Configuring NTFS Permissions for Files and

Folders

How Permissions May Change with File Copy or

Moving

What are Effective Permissions?

Discussion: Determining Effective Permissions

Lesson: Compressing Files What is NTFS File Compression?

How Compression Settings are Affected with File Move

or Copy

Zipped Folders

Demo - Compressing Files and Folders Lesson: Sharing Folders and Printers

What are Shared Folders? Ways to Share Folders

Discussion: Combining NTFS and Share Permissions

Using the Network and Sharing Center

Managing Printing

Printing Components in Windows 7 Demo - Installing and Sharing a Printer

Location-Aware Printing Client-Side Printing Chapter 05 Review

Chapter 06 - Working with Windows 7 Client Performance

Lesson: Installing and Configuring Device Drivers

Overview of Device Drivers

How to Install Devices and Drivers Tools for Device Driver Management

Methods for Updating Drivers Managing Signed Drivers

Discussion: Options for Recovering from a Driver

Problem

Demo - Managing Drivers by Using Device Manager Lesson: Windows 7 Performance Monitoring Tools Discussion: What Are Performance and Reliability

Problems?

Tools to Gather Performance Information

Monitoring Performance and Using Data Collector Sets

Demo - Using the Resource Monitor

Demo - Analyzing System Performance by Using Data

Collector Sets and Performance Monitor How Performance Monitor Can Help You Lesson: Monitoring Reliability of Windows 7 How WDT Can Help You Solve Problems Windows Network Diagnostics Tools Windows Startup and Recovery

Introducing the Windows Memory Diagnostics Tool Looking at the Reliability Monitor and Problems

Reports and Solutions Tool

Chapter 06 Review

Chapter 07 - Basic Desktop Security

Lesson: Discussion of Security Management in

Windows 7

New Security Features in Windows 7 Introducing the New Action Center

Demo - Configuring Action Center Settings

Lesson: Using Windows Defender

Watch Out for Malware What is Windows Defender?

How Windows Defender Can Help You

Demo - Configuring Windows Defender Settings

Lesson: How does UAC Work?

Revisiting UAC

Improvements to How UAC Works Demo - Configuring Group Policy Getting Your Notifications

Lesson: Using Windows Firewall Discussion: What is a Firewall?

Basic Firewall Settings Advanced Security Options Know Your "Well-Known" Ports

Demo - Configuring Inbound, Outbound, and

Connection Security Rules

Chapter 07 Review

Chapter 08 - Advanced Desktop Security

Lesson: Using Local Policies to Secure Windows 7

Introducing Group Policies How GPOs are Applied

Order of Operations for Multiple Policies

Demo - Creating Multiple Local Group Policies
Demo - Configuring Local Security Policy Settings
Lesson: How EFS and BitLocker Secure Your Data

FFS

Demo - Encrypting and Decrypting Files and Folders

by Using EFS

Introducing BitLocker BitLocker Requirements

BitLocker Modes

Setting BitLocker Options with Group Policies

Configuring BitLocker
Configuring BitLocker To Go

Recovering BitLocker Encrypted Drives

Lesson: Security With Application Restrictions

Introducing AppLocker

AppLocker Rules

Demo - Configuring AppLocker

What are Software Restriction Policies? Lesson: IE Version 8 Privacy Features

Discussion: Compatibility Features in Internet



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Explorer 8

Internet Explorer 8's Enhanced Privacy Features Using the SmartScreen Feature in Internet Explorer 8 Other Security Features in Internet Explorer 8 Demo - Configuring Security in Internet Explorer 8 Chapter 08 Review

Chapter 09 - Disaster Recovery & Prevention

Lesson: Backing Up and Restore Options with

Windows 7

Discussion: Why Do Backups?

Introducing the Backup and Restore Tool

Demo - Perform a Backup

Lesson: How System Restore Works

Using Previous File Versions

Configuring System Protection Settings

Demo - Restore a System

Lesson: Using the Windows Update

What is Windows Update? Using Windows Update Settings Windows Updates with GPOs

Chapter 09 Review

Chapter 10 - Remote Access Options

Lesson: Configuring Windows 7 for Mobility Discussion: What Devices Would be Considered

Mobile?

Settings to Configure on Mobile Computers

What is a Sync Partnerships?

Managing Power Options in Windows 7 Demo - How to Configure a Power Plan Lesson: Remote Access Solutions

Introducing Remote Desktop and Remote Assistance

Setting Up Remote Desktop

Understanding VPN Connections

How to Make a VPN

What is DirectAccess?

How DirectAccess Works

Requirements for Setting Up DirectAccess

What is BranchCache?

How BranchCache Works

Requirements for Setting Up BranchCache

Demo - Configuring BranchCache on a Windows 7

Client Computer Chapter 10 Review

Chapter 11 - Introducing Windows

PowerShell 2.0

Lesson: What is Windows PowerShell 2.0?

Overview of Windows PowerShell

Improvements in Windows PowerShell 2.0
Using cmdlets in Windows PowerShell 2.0
Understanding Windows PowerShell Eventing

Introducing the Windows PowerShell 2.0 Integrated

Scripting Environment (ISE)

Operating the Windows PowerShell ISE Editor Lesson: Remoting With Windows PowerShell 2.0 Overview of Windows PowerShell Remoting How to Connect to a Remote Computer

Processing of Remote Commands

Issuing Remote Commands

Lesson: Configuring Group Policy with PowerShell 2.0

PowerShell 2.0 Has New cmdlets for Group Policy

Administration

Requirements for Group Policy

Chapter 11 Review Course Closure