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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