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Windows 7 Configuration Course

5 Sessions -
14 Hours of Interactive Training

In this course, you'll learn what's new in Microsoft's latest operating system: Windows 7. Once you understand the new features and changes in this OS, you'll see that it's a pleasure to work with. In addition to becoming proficient with Windows 7 productivity tools, you'll also be prepared to take exam 70-680, MCTS: Windows 7 Configuration Certification. Expert Tom Carpenter will take you through the complete Windows 7 experience and give you the tools to configure and deploy Windows 7 as your own computing environment.

Benefits

- Prepares you for Microsoft's 70-680 exam: Windows 7, Configuration
- Complete and detailed walkthrough of Windows 7 installation, upgrades, migration and deployment
- Detailed instruction on VPN's, encryption, file management and automated backup

Session 1

Section A: Introduction

- Why Windows 7?
- Compatibility
- Enhancements
- Vista Pain Repairs
- 70-680 Exam
- 70-680 Objectives
- Windows 7 Network

Section B: Installation Methods

- Previous Installation Methods
- Current Boot Practices
- Current Installation Methods
- Sole Operating Systems
- Dual Booting
- Using bcdedit
- Default Boot Loader
- Deleting Database Entries

Section C: Upgrade Methods

- Upgrade Considerations
- Windows 7 Upgrade Advisor
- Installing the Advisor
- Running the Advisor
- Anytime Upgrade

Section D: Clean Installation Planning

- Hardware Requirements
- Booting from a USB Drive
- Create a Bootable USB Drive
- Preparing a Network Share
- Preparing WDS

Section E: Performing a Clean Install

- Clean Install Process
- Install Windows 7
- Initial Setup Tasks

Section F: Migrating Windows

- Migration Options

configurations

- Wipe-and-Load
- Side-by-Side
- Previous Versions
- Windows Easy Transfer
- Migrating from XP

About The Author

Tom Carpenter has delivered training programs to more than 27,000 professionals since 1997. He has written, developed and delivered courses on: Windows NT, 2000, XP and Server 2003. With experience as a Fortune 1000 system administrator and security officer, Carpenter brings a wealth of real world experience and knowledge to his courses. Tom is Microsoft certified and is one of the founding managers of the Certified Technology Services Professional certification.

Section G: Image-Based Deployment

- The History of Imaging
- WIM Files
- Manual Image Deployment
- Automated Image Deployment
- Microsoft Deployment Toolkit
- Installing MDT 2010
- The Deployment Workbench

Section H: Capturing System Images

- Creating a Deployment Share
- Importing an OS Image
- Customizing the Share
- Task Sequencing
- Updating the Deployment Share
- Sysprepping

Session 2

Section A: Manipulating Images

- Deployment Tools
- DISM tool
- Mounted Image Directory
- Image Application Management
- Image Driver Management
- Adding Drivers to Images
- Image Update Management

Section B: Advanced Imaging Techniques

- WinSIM tool
- Creating an Answer File
- VHD File
- Boot from VHD
- Working with a VHD
- Creating a VHD in Disk Management

Section C: Working with Device Drivers

- Device Drivers
- Updating Device Drivers
- Using Device Manager to Update Drivers
- Disable or Uninstall Drivers

- Advanced Options
- Driver Certificate Verification
- sigverif.exe

Section D: Hardware Compatibility

- Windows 7 Hardware Compatibility
- Driver Install Process
- Installing Vista Drivers
- Verify Driver Installation
- Devices and Printers
- Device Stage

Section E: Internet Explorer 8

- Compatibility View
- Security Settings
- Add-ons and Provider Management
- InPrivate Filtering
- InPrivate Mode
- Certificates

Section F: Understanding Application Compatibility

- Application Compatibility
- Compatibility Properties
- Compatibility Wizard
- Windows XP Mode
- Installing / Configuring Windows XP mode
- 16-Bit Example
- Windows XP Mode Applications

Section G: Using Application Restrictions

- Application Restrictions
- Software Restriction Policies
- AppLocker

Section H: Understanding IPv4 and IPv6

- Networking in Windows 7
- The Network Stack
- IPv4 Addressing
- Subnet Masks
- Default Gateways
- Public vs. Private Addressing
- Device Naming
- IPv6
- IPv6 Benefits
- IPv6 Address Space
- IPv6 Address Types

Session 3

Section A: Configuring IP Protocols

- The Need for Configuration
- Network Connection Properties
- IPv4 Properties
- IPv4 Advanced Settings
- IPv6 Properties
- netsh: Net Shell
- netsh: Interface
- netsh: IPv4 Interface
- Setting a Static Address
- Commands Directly from Command Prompt
- netsh: IPv6 Interface

Section B: Managing Networking Configurations

- Wireless Network Connections
- Preferred Wireless Networks
- Wireless Security Settings
- Network Adapters
- Location Aware Printers
- Adding Additional Network Adapters
- Installing the Drivers

Section C: Windows Firewall

- The Windows Firewall
- Networking Concepts
- Configuring Windows Firewall
- Turning the Firewall On/Off
- The WFAS Interface
- Connection Security Rules
- Firewall Monitoring

Section D: Remote System Management

- RDC
- Using RDC
- Remote Assistance
- WinRM
- WinRS
- Remote PowerShell

Section E: Updating Windows 7

- Update Operations
- Configuring via Group Policy Editor
- Checking for Updates
- Viewing Update History
- Roll Back

Section F: System Event Monitoring

- The Event Viewer
- Configuring Event Logging
- Filtering the Log
- Custom Views
- Event Subscriptions
- Assigning Tasks to Events
- Command Line Event Management

Section G: System Performance Monitoring

- Performance Analysis
- Task Manager
- Resource Monitor
- Reliability Monitor
- Performance Monitor
- Data Collector Sets
- Reports

Session 4

Section A: Performance Tuning

- Optimizing Performance
- TCP Window Size
- Page File
- Power Management
- Advanced Power Settings
- Adjusting Visual Effects
- Management of Services
- Processor Scheduling

Section B: Managing Storage

- Disk Management
- Additional Menu Items
- RAID Arrays
- RAID
- Removable Storage
- The Hard Drive Cache
- DiskPart
- Defrag (Command Line)
- Defrag Report (Command Line)
- Disk Defragment
- Disk Cleanup

Section C: Securing Authentication

- Authentication
- Troubleshooting Authentication Issues
- User Accounts

- Multifactor Authentication
- User Rights
- Credential Manager
- Certificate Manager

Section D: Sharing Resources

- Folder Virtualization
- Share Permissions
- NTFS Permissions
- Effective Permissions
- HomeGroup Management
- Printer Sharing

Section E: User Rights Management

- User Account Control
- Configuring User Account Control
- Group Policy Settings
- Admin Approval Mode
- User Rights within Group Policy
- Profile System Performance

Section F: Windows 7 Encryption

- Encryption Technologies
- BitLocker
- Encrypted File System
- Recommendations for EFS
- EFS within Group Policy Mode
- BitLocker To Go
- BitLocker Recovery Key
- BitLocker Options
- Viewing the BitLocker Recovery Key

Section G: Remote Connectivity

- NAP
- VPNs
- Creating a VPN Connection
- VPN Settings/Options
- VPN Reconnect
- Enabling VPN Reconnect
- Creating a Dial-Up Connection

Session 5

Section A: Configuring Mobility Options

- Offline Files
- Enabling Offline Files
- Sharing Offline Files

- Managing Offline Files
- Migrating Power Configurations

Section B: Understanding BranchCache

- BranchCache
- Operating Modes
- BranchCache Facts
- Netsh BranchCache
- Group Policy BranchCache

Section C: Implementing DirectAccess

- DirectAccess
- DirectAccess Requirements
- Group Policy DirectAccess
- Netsh DirectAccess

Section D: Backing Up Windows 7

- System Recovery Disc
- Verifying the System Recovery Disc
- Full System Backup
- Scheduling Backups

Section E: System Restore and Recovery

- System Protection
- Creating a Restore Point
- Configure System Protection Settings
- System Restore
- Reverting to a Restore Point
- Last Known Good

Section F: File Management and Recovery

- Shadow Copies
- Previous File Versions
- Copy Previous File Version
- Restore Previous File Version
- Scheduling Restore Points