70-680 R3: Installing and Configuring Windows 7

Course Introduction Course Introduction	4m
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	30m
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	33m
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	52m
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

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

1h 36m

1h 10m

Lesson: Compressing Fi	iles
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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

46m

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

1h 14m

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

EFS

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 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

1h 10m

27m

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

<u>Chapter 11 - Introducing Windows PowerShell 2.0</u>

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

20m

34m

Total Duration: 9h 16m