

Windows[®] 7: A Comprehensive Hands-On Introduction - 4 Days

Course 2400 Overview

- You Will Learn How To**
- Install, manage and support Windows 7
 - Configure and customize the OS for optimal performance
 - Establish and maintain user accounts and groups
 - Secure local and network-accessible resources
 - Ensure application compatibility and functionality
 - Troubleshoot Windows 7 operating systems

Course Benefits Organizations are constantly looking for ways to lower costs and increase the return on their IT infrastructure investment. Windows 7 offers enhanced features in stability, security, performance and compatibility, which maximize productivity and reduce total cost of ownership. In this course, you gain the skills necessary to manage, maintain and support the most advanced features and capabilities of Windows 7.

Who Should Attend IT and desktop support staff, systems administrators, power users and anyone wanting to gain hands-on experience with Windows 7. Familiarity with Microsoft Windows is assumed.

Hands-On Training Throughout this course, extensive hands-on exercises provide practical experience configuring Windows 7. Exercises include:

- Installing Windows 7
- Monitoring and troubleshooting system performance with Action Center tools
- Creating and managing users and groups
- Adjusting User Account Control (UAC) strictness
- Securing USB data with BitLocker To Go
- Sharing and accessing network resources
- Prohibiting applications with AppLocker
- Troubleshooting application compatibility

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Course 2400 Outline

Introduction to Windows 7

Discovering the new features

- Evaluating performance improvements
- Investigating usability enhancements

Installing Windows 7

- Assessing hardware requirements
- Licensing and activation
- Selecting installation options

Navigating the system

- Exploring the new user interface
- Locating and launching new tools

Configuring and Maintaining the OS

Evaluating alternate installation options

- Installing to Virtual Hard Disks (VHDs)
- Installing to virtual machines

Ensuring optimal configurations

- Performing post-setup customization
- Modifying settings with PowerShell
- Managing and interacting with hardware through Device Stage
- Monitoring reliability and performance

Troubleshooting and restoring

- Booting to the Windows Recovery Environment
- Recovering functionality with System Restore
- Repairing the Boot Configuration Data (BCD) store
- Creating a System Repair Disk
- Leveraging Action Center tools

Managing User Accounts and Environments

Creating and modifying security boundaries

- Comparing workgroups with domains
- Establishing HomeGroups
- Credential Manager

Operating within an Active Directory domain

- Joining and participating in a Windows domain
- Publishing and locating network resources

Configuring and controlling user environments

- Selecting user profile types
- Creating custom Libraries

- Implementing Offline Caching and Folder Redirection

Customizing User Account Control (UAC)

- Adjusting the UAC to allow routine tasks
- Mandating UAC settings with Group Policies

Securing Local and Network Resources Implementing Discretionary Access Control (DAC)

- Setting permissions for files, folders and printers
- Simplifying object access with inheritance

Securing and auditing the system

- Tracking user rights and object access
- Troubleshooting access problems
- Action Center
- Windows Defender
- AppLocker

Encrypting drives and devices

- Leveraging biometric devices for authentication and access
- Protecting hard disks with BitLocker
- Maintaining USB media privacy with BitLocker To Go

Networking with Windows 7

Configuring TCP/IP functionality

- Selecting protocol and options
- Investigating TCP/IP configurations

Network Location Awareness

- Exploring the Network and Sharing Center
- Merging cached networks

Connecting to wireless networks

- Generating a network map
- Managing Wi-Fi network lists
- Simplifying wireless access with enhanced features

Sharing and accessing resources

- Providing local resources to the network
- Locating printers and folders with Network Explorer

Accessing the enterprise remotely

- Working securely with Remote Desktop Services (RDS)
- Direct Access

- Branch Cache
- VPN Reconnect

Managing Programs and Compatibility

Leveraging built-in technologies

- Tracking crashes with Problem Steps Recorder
- Customizing system security for legacy programs

Monitoring and analyzing applications

- Preventing problems with the Program Compatibility troubleshooter
- Inspecting file system and registry redirection

Ensuring application compatibility

- Avoiding unwanted changes made by troubleshooters
- Circumventing UAC problems