

# Implementing and Administering Windows 7 in the Enterprise

**Length:** Five Days

**Summary:** In this exclusive Windows 7 training course, you will gain the knowledge and skills you need to successfully install, maintain, and troubleshoot Windows 7 computers. Through practical labs, you'll get invaluable experience with installation and upgrades, remote access, and the new desktop environment. You will learn how Windows 7 allows for vast improvements to security, overall system performance, and deployment—a robust combination unparalleled in the market.

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## Course Content

### WELCOME TO WINDOWS 7: FEATURES, DIFFERENCES, AND INSTALLATIONS

- Overview of the Windows Desktop Lineage
- Windows Vista Product Line and Comparison with Windows 7 Editions
- Hardware Requirements for Windows 7
- Hardware and Software Compatibility
- Boot Configuration with the Boot Configuration Data (BCD)
- Installations vs. Upgrades
- Creating .wim Images using ImageX
- Deploying Windows 7 and Windows 7 Deployment Tools
- Sysprep
- Windows Setup
- Windows Automated Installation Kit
- WDS
- Windows Activation and Registration

### THE WINDOWS 7 DESKTOP OUT OF BOX EXPERIENCE (OOBE)

- Desktop Windows Manager Driver Set
- Default Views and Classic Views from the Personalization Menus
- Windows Computer Views, Computer Management, and Computer Properties
- Windows 7 Control Panel
- Windows Vista Network Exploration and Sharing Center

### CUSTOMIZING THE WINDOWS 7 USER INTERFACE

- Personalization Settings
- Windows 7 Aero Graphics
- Basic and High Contrast Themes
- Desktop Background
- Manipulate Screen Resolution
- Appearance and Personalization Control Panel Item Details
- Multiple Display Support
- Folder Options
- Windows 7 User Profiles
- Windows 7 Ease of Access Center
- Customizing the Taskbar, Start Bar, and Toolbars Environment
- Windows 7 Search Features

### WINDOWS 7 IN THE WORKGROUP ENVIRONMENT

- Workgroups vs. Domains
- Windows 7 Workgroup Features
- Custom Libraries
- Wireless Homegroup Networking
- Where Windows Meeting Space Is
- Encrypting File Service
- Super Fetch and Ready Boost
- Volume Shadow Copy

### WINDOWS 7 NETWORKING AND LAN CONNECTIVITY

- Control Panel Networking and the Internet
  - View Network Status and Tasks
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- Network and Sharing Center
- View Network Computers and Devices
- Add a Wireless Device to a Network
- Setup a Connection or Network
- Change Advanced Sharing Settings
- Change Adapter Settings
- Revive Windows Firewall with Advanced Features
- DNS Primer
- WINS Primer
- Local Security Policy Configurations
- Fundamentals of TCP/IP with Windows 7
- Windows Enhancements to IP Version 6

### **WINDOWS 7, SERVER 2008 ACTIVE DIRECTORY, AND GROUP POLICIES**

- DNS ADDS Primer
- ADDS Primer
- Windows 7 Local Security Policy and Tools
- Windows 7 and Group Policy Deployment
- ADMX Administrative Templates
- Domain Group Policy
- Specific Windows 7 Group Policies
- Advanced Audit Policy Configuration
- Digital Locker Policies

### **WINDOWS 7 REMOTE CAPABILITIES AND UTILITIES**

- DirectAccess VPN Bypass
- Connect to a Network VPN
- RDP 7.0 Connection
- Firewall Support
- Remote Settings Tab
- Remote Assistance MSRA.EXE
- Remote Desktop

### **WINDOWS 7 NOTEBOOK AND MOBILE FEATURES**

- Create a Power Management Plan
- Windows 7 Mobility Center
- BitLocker for the Laptop with TPM and Removable Storage Encryption
- Windows Backup and Restore Center
- Windows RE
- Windows System State Backup

- Create a System Image
- Create a System Repair Disc

### **LOCAL PROTECTION, NETWORK PROTECTION, AND INTERNET PROTECTION**

- Windows 7 User Account Control Primer
- Local Security Policy Configuration
- Advanced User Account Control Changes in Windows 7
- Windows Network Access Protection
- Windows Firewall
- Windows Firewall with Advanced Security
- Windows File and Registry Virtualization
- Windows 7 Service Hardening
- Windows Defender
- Windows Software Update Services

### **WORKING WITH THE NTFS FILE SYSTEM AND WINDOWS 7**

- NTFS Access to Resources Locally
- Security Principles
- SIDS and the NTFS Token
- NTFS Permissions
- Secondary Logon Service
- Recovering Lost Encrypting File System (EFS) Files with the Recovery Agent
- BitLocker Drive Encryption

### **TROUBLESHOOTING, MONITORING, AND FINE-TUNING WINDOWS 7 FOR THE WORKPLACE**

- Windows 7 Reliability Monitor
  - Perform Windows Memory and Network Diagnostics
  - MSCONFIG Utility
  - Windows 7 Startup and Recovery Configurations
  - Windows 7 Virtual Memory Configurations
  - Restore Your Computer to an Earlier Time
  - Windows Defender Blocked Applications
  - Local Security Policy
  - Performance Monitor
  - Print Management
  - Services
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- System Configuration
- Memory Diagnostics
- Windows Powershell Modules

### **CONFIGURING AND TROUBLESHOOTING WINDOWS 7 APPLICATIONS**

- Run Programs Made for a Previous Version of Windows
- File and Registry Virtualization
- User Account Control for Application Settings
- Local Security Policy Configurations
- Windows 7 Environment Variables for Legacy Applications
- Edit Environment Variables for Your Account and for the System
- Microsoft Hyper-V Technology
- Microsoft Virtual PC with XP Mode
- Windows 7 Virtual Hard Drive Mounting Process

### **INTERNET EXPLORER 8**

- Setup and Initial Configuration of Internet Explorer 8
  - Understanding and Using Accelerators
  - Understanding and Using Web Slices
  - Working with Tabs
  - Tools and Safety Buttons
  - InPrivate Filtering and Compatibility Modes
  - Internet Options
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