

## **Course 577: Windows 7 Foundations** **(4 days w/Hands-On Workshops)**

### **Course Description...**

Windows 7 is here! Positioned as the business replacement for Windows XP, Windows 7 represents an all new desktop, with real enterprise focus and capabilities. In this hands-on, real-world course, practical techniques will be used to examine installation, configuration, security, compatibility and deployment. The Hands-on workshops will supplement the lecture material, and the students will utilize the 32-bit and 64-bit releases of Windows 7 and interact with Windows 2008 R2 servers.

### **Who should attend...**

This high-impact hands-on course is recommended for anyone who needs a technical understanding of Windows 7, and how it will impact the business environment. Any technical staff that will have administrator-level access to Windows 7 systems need to attend this course as soon as possible, and the course will benefit others, including: Managers, System Administrators, Network Administrators, Security Officers/Managers, Developers, Deployment Teams, and Programmers. While not designed for end-users, Power Users may benefit from this course as well, although significant time is spent dealing with System Administration and technical information is discussed.

### **Suggested Prerequisites...**

- Experience with Windows 2000, XP or Vista
- A basic understanding of TCP/IP

## **Course Outline...**

### **Chapter 1: Windows 7 Fundamentals and Installation**

What is Windows 7

Windows 7 Architecture: Key Concepts

Windows Roadmap and Version Overview

Determine the correct business version (Professional, Enterprise or Universal) and architecture (x86 or x64)

Individual installation options: CD, USB and Network Share

*Workshop: Performing a clean installation of Windows 7*

Operating System upgrade options for Windows 7

Upgrade vs Clean Installation

Migration of User Profile and User Data

*Workshop: Managing User Data in Windows 7*



## **Chapter 2: Windows Management Tools and Hardware Configuration**

Windows Management Tools overview

Events, Disk and Server Management Tools

*Workshop: Reviewing Windows 7 Configuration and Management Tools*

Device Management in Windows 7

Research and Configure Un-recognized Devices

Understanding signed drivers, and the difference between 32-bit & 64-bit drivers

*Workshop: Installing, Updating, Disabling and Uninstalling drivers*

## **Chapter 3: Configuration of Networking**

Managing the Network Components in Windows 7

Understanding wired and wireless connections

Configure IPv4 Networking in Windows 7

*Workshop: Configuring Networking and IPv4 Configuration*

Overview of IPv6

Configure IPv6 Network in Windows 7

*Workshop: Configuring IPv6 in Windows 7*

Windows Firewall Fundamentals: Network Profiles

Controlling Windows Firewall for specific applications and notifications

Configure Remote Management

*Workshop: Enhancing Network Configuration*

## **Chapter 4: Security in Windows 7**

Authentication and Authorization

Controlling User Accounts and Permissions

Limiting Administrator privileges required by users

User Account Control (UAC)

*Workshop: Joining Windows 7 to an Active Directory domain*

Local Security Policies and Preferences

Active Directory Domain Management

Configuring Shared Resources

Configure File and Folder Access

*Workshop: Sharing Resource*

## **Chapter 5: Application Management and Compatibility**

Understanding Windows File System Layout

Overview of the Windows Registry

*Workshop: Installation and examination of an enterprise application installation*

Setting application compatibility mode

Implementing shims

*Workshop: Configure a "non-functional" application*

When to utilize Windows XP Mode

Adding Windows XP Mode features

Controlling the compatibility features of XP Mode

*Workshop: Installing and using the Windows XP Mode feature*



## **Chapter 6: Internet Explorer 8**

What's new in Internet Explorer 8

Security feature at work when browsing with Windows 7 & Internet Explorer 8

Configure compatibility views

Solving Application compatibility issues with Internet Explorer 8

Understanding InPrivate mode and other security settings

*Workshop: Configure Internet Explorer 8 options*

## **Chapter 7: Mobile Computing with Windows 7**

BranchCache: distributed cache mode vs hosted mode

Basics of BitLocker / BitLocker to Go

What is DirectAccess and how does it differ from a typical VPN

Configuring Mobility options: offline files and transparent caching

Managing Power Policies

*Workshop: Configure mobility features*

Backup options and capabilities

Enabling and utilizing Shadow Copies

System-level and File-level recovery

*Workshop: Managing backup and restoration*

## **Chapter 8: Deploying Windows 7 in the Enterprise**

Understanding the Windows 7 installation process

Creating and deploying custom .wmi images

Using the Automated Installation Kit with Windows 7

*Workshop: Installing Custom Windows 7 Images from Windows 2008 Server*

Controlling Windows 7 Policies and Preferences with Group Policies

Deploying Updates to Windows 7 and Applications

*Workshop: Managing Windows 7 in an Active Directory Environment*

***Additional/Custom Topics are available, and hands-on labs can be customized for specific environments - please contact your ROI representative to discuss course tailoring!!!***