



Course 6291A: Updating Your Technology Knowledge of Microsoft Windows XP to Windows 7 Beta

About this Course

This three-day instructor-led course provides students with the knowledge and skills to work with the new technologies in Windows Vista and Windows 7 Beta. This course is intended for individuals who already have experience with Windows XP to upgrade their skills to Windows 7 Beta.

Audience Profile

This course is intended for IT professionals who generally perform desktop support for Windows computers. Typical duties for IT professionals include user support, desktop configuration, and desktop troubleshooting. They will be particularly interested in the new features of Windows 7 Beta and how the changes affect Windows security, reliability, performance, productivity and manageability.

At Course Completion

After completing this course, students will be able to:

- Manage the desktop settings that personalize the computing experience.
- Describe how Windows 7 Beta Search enhancements improve productivity.
- Implement Search Federation to search remote data sources within the enterprise infrastructure.
- Describe the new Group Policy Preferences and Administrative Templates that are available to IT professionals who manage Group Policy Objects.
- Describe how IT professionals use the Group Policy Management Console to create scripts that manage Group Policy Objects.
- Identify and use the improvements made to the latest version of PowerShell.
- Describe how DirectAccess enables IT professionals to remotely manage and update user PCs.
- Describe the platform and network requirements necessary to implement DirectAccess.
- Describe the VPN reconnection features and the platform and network requirements.
- Illustrate how to use Group Policy to prevent specific types of files from being synchronized to the server.
- Describe how BranchCache improves user productivity in branch offices by caching content from remote file and Web servers in branch locations.
- Administer new User Account Control security settings to improve the end-user computing experience.
- Describe how AppLocker enables IT Professionals to specify the programs that are allowed to run on user desktops.

- Describe how Windows 7 Beta improves upon the firewall policy by allowing IT professionals to identify multiple active firewall profiles.
- Describe new Windows 7 Beta features as they relate to Windows Deployment Services and virtualization.
- Explain how the Problem Steps Recorder can be used to reproduce and record experiences with an application failure.
- Summarize key components of the Windows Troubleshooting Platform and run the troubleshooting wizard from the Start menu for a specific problem.
- Identify how unified tracing provides IT professionals with a single tool for troubleshooting issues in the Windows 7 Beta networking stack.
- Describe how Windows Management Instrumentation provides IT professionals with programmatic access to reliability data, enabling them to check stability status and review recent events remotely.
- Describe how to use the Device Manager and Devices and Printers to manage devices

Course Outline

Module 1: Introduction to User Productivity Enhancements

This module introduces the key enhancements included in Windows 7 Beta, including improvements to desktop controls and Search functionality, and the addition of the new Search Federation functionality.

Lessons

- Controlling Your Desktop
- Overview of Desktop Search Enhancements
- Introduction to Search Federation

Lab: Implementing Search Enhancements in Windows 7 Beta

- Create and Configure a Library
- Configure Search Indexes
- Create and Pin a Search Connector

After completing this module, students will be able to:

- Manage the desktop settings that personalize the computing experience.
- Describe how Windows 7 Beta Search enhancements improve productivity.
- Implement Search Federation to search remote data sources within the enterprise infrastructure.

Module 2: Managing Desktop Configurations

This module reviews the enhancements made in Windows 7 Beta that enable IT professionals to more effectively manage desktops and mobile PCs.

Lessons

- Automating Group Policy Enhancements
- Introduction to Windows PowerShell 2.0
- Using Windows PowerShell 2.0

Lab: Desktop Configuration

- Applying Group Policy Enhancements
- Using Windows PowerShell 2.0

After completing this module, students will be able to:

- Describe the new Group Policy Preferences and Administrative Templates that are available to IT professionals who manage Group Policy Objects.
- Describe how IT professionals use the Group Policy Management Console to create scripts that manage Group Policy Objects.
- Identify and use the improvements made to the latest Windows PowerShell version.

Module 3: Introduction to Remote Access

This module describes how Windows 7 Beta makes it easier for users to get connected and stay connected regardless of location or type of network.

Lessons

- Introduction to DirectAccess
- Designing a DirectAccess Solution
- Install and Configure DirectAccess
- Overview of VPN Reconnect
- Introduction to BranchCache

After completing this module, students will be able to:

- Describe how DirectAccess enables IT professionals to remotely manage and update user PCs.
- Identify the platform and network requirements necessary to implement DirectAccess.
- Describe the steps for installing DirectAccess.
- Describe the steps for configuring and enabling DirectAccess.
- Describe the VPN reconnection features and the platform and network requirements.
- Describe how BranchCache improves user productivity in branch offices by caching content from remote file and Web servers in branch locations.

Module 4: Introduction to Windows 7 Beta Security Components

This module examines how Windows 7 Beta improves upon the security lineage of Windows Vista by making security features more useable and manageable, by protecting data on PCs and devices, and by enabling IT professionals to specify exactly what is to run on user desktops.

Lessons

- Implementing User Account Control
- Introduction to Windows BitLocker
- Introduction to Windows AppLocker
- Configuring Windows Defender
- Introduction to Windows Firewall with Advanced Security

Lab: Implementing User Account Control

- Configure User Account Control

Lab: Implementing AppLocker Security Controls

- Create AppLocker Rules and Configure Enforcement

Lab: Implementing Windows Defender

- Configure Scans for Windows Defender

Lab: Implementing Windows Firewall with Advanced Security

- Adjust Windows Firewall Configuration
- Lab Shutdown

After completing this module, students will be able to:

- Administer new User Account Control security settings to improve the end-user computing experience.
- Describe BitLocker and how BitLocker to Go gives system administrators control over protection for removable storage devices.
- Describe the new Group Policy Preferences and Administrative Templates that are available to IT professionals who manage Group Policy Objects.
- Identify how IT professionals can use Windows Defender to prevent spyware and potentially unwanted software from infecting computers.
- Describe how Windows 7 Beta improves upon the firewall policy by allowing IT professionals to identify multiple active firewall profiles.

Module 5: Deploying Windows 7 Beta Images

This module examines the Windows 7 Beta system imaging tools that enable IT professionals to manage operating system images using a single, consolidated tool-set, improve system image delivery over the network, and reduce image sizes.

Lessons

- Preparing to Deploy a Windows 7 Beta Image
- Deploying a Windows 7 Beta Image
- Servicing a Windows 7 Beta Image

After completing this module, students will be able to:

- Describe new Windows 7 Beta features as they relate to Windows Deployment Services and virtualization.
- Describe how the DISM tool provides a central place for IT professionals to build and service Windows images offline.
- Describe how Dynamics Driver Provisioning in Windows 7 Beta allows IT professionals to reduce the size of system images.
- Describe how Multicast Multiple Stream Transfer helps ensure the fastest possible overall transfer rate.
- Describe how the VHD Boot feature of Windows 7 Beta helps ease the transition between virtual and physical environments.

Module 6: Troubleshooting in Windows 7 Beta

This module examines the new troubleshooting capabilities in Windows 7 Beta that provide IT professionals the tools they need to resolve issues quickly without having to call the help desk.

Lessons

- Troubleshooting with Problem Steps Recorder
- Using the Windows Troubleshooting Platform
- Diagnosing Issues with Unified Tracing
- Analyzing Performance with Windows Management Instrumentation (WMI)
- Managing Devices

Lab: Using New Windows 7 Beta Troubleshooting Features

- Create and Analyze a Report by using Problem Steps Recorder
- Analyze Troubleshooting Results Generated from the Windows Troubleshooting Wizard
- Use Netsh Commands to Capture Network Trace Information
- Create a Data Set Collector in Performance Monitor and Analyze Results
- Restrict Installation of a Device by using Group Policy

After completing this module, students will be able to:

- Explain how the Problem Steps Recorder can be used to reproduce and record experiences with an application failure.
- Summarize key components of the Windows Troubleshooting Platform and run the troubleshooting wizard from the Start menu for a specific problem.
- Identify how unified tracing provides IT professionals with a single tool for troubleshooting issues in the Windows 7 Beta networking stack.
- Describe how Windows Management Instrumentation provides IT professionals with programmatic access to reliability data, enabling them to check stability status and review recent events remotely.
- Describe how to use the Device Manager and Devices and Printers to manage devices.