

MS 6294 - Planning and Managing Windows 7 Desktop Deployments and Environments (5 Day)

This five-day instructor-led course is intended for desktop administrators who want to specialize in desktop deployment, configuration, and management. In this course, students will learn how to plan and deploy Windows 7 desktops in large organizations. They will also learn how to design, configure, and manage the Windows 7 client environment. This course helps students prepare for the Exam 70-686, Pro: Windows 7, Enterprise Desktop Administrator.

Audience

This course is intended for IT Professionals who are interested in specializing in Windows 7 desktop and application deployments and managing the desktop environments for large organizations. People attending this training could be support technicians or currently in deployment roles and are looking at taking the next step in their career or enhancing their skills in the areas of planning and deploying Windows 7 desktops.

Prerequisites

Before attending this course, students must have:

- A solid understanding of TCP/IP and networking concepts.
- A solid Windows and Active Directory background.
- A good understanding of scripts and batch files.
- A solid understanding of security concepts such as authentication and authorization.
- Performed a clean installation of Windows 7, Upgrade to Windows 7, and migrate user-related data and settings from Windows XP.
- Configured disks, partitions, volumes, and device drivers to enable Windows 7 to function as desired.
- Experience configuring settings to enable network connectivity.
- Experience configuring and troubleshooting a wireless network connection.
- Experience configuring and troubleshooting Windows 7 security.
- Configure mobile computers and devices.
- Familiarity with the client administration capabilities of Windows Server and familiar with management tools such as the System Center suite of products.
- Familiarity with deployment, packaging, and imaging tools.

Course Outline

Module 1: Preparing to Deploy Windows 7 Business Desktops

This module helps you plan and perform effective preparation tasks for deploying Windows 7 clients. It begins by discussing client, hardware, and deployment lifecycles. It also discusses how to assess existing computing environments and licensing.

Lessons

- Overview of the Desktop Lifecycle
- Desktop Deployment: Challenges and Considerations
- Tools and Technologies Used in the Desktop Deployment Lifecycle
- Assessing the Current Computing Environment for Deploying Windows 7
- Designing Windows Activation

Lab: Assessing the Computing Environment by Using the Microsoft Assessment and Planning Toolkit

Lab: Recommending an Activation Strategy

Module 2: Assessing Application Compatibility in Windows 7

This module describes the process for addressing common application compatibility issues experienced during a typical operating system deployment. It also explains how to use the Microsoft Application Compatibility Toolkit (ACT) to help inventory, analyze, and mitigate application compatibility issues.

Lessons

- Overview of Application Compatibility
- Assessing and Resolving Application Compatibility Issues by Using ACT 5.5

Lab: Evaluating Application Compatibility Using the Microsoft Application Compatibility Toolkit

Lab: Creating Application Compatibility Fixes

Module 3: Evaluating Windows 7 Deployment Methods

This module discusses different deployment scenarios and methods that are available when deploying Windows 7. It also discusses various tools and technologies to use in the different scenarios, and considerations for selecting a deployment scenario and method.

Lessons

- Evaluating In-Place Deployment
- Evaluating Side-by-Side Deployment
- Evaluating Lite-Touch Deployment Method
- Evaluating Zero-Touch Deployment Method

Lab: Determining the Windows 7 Deployment Method

Module 4: Designing Standard Windows 7 Images

This module, explains the underlying architecture of the computer imaging system that can be used to create and deploy a custom image of a Windows 7 desktop. It also discusses the different phases of the imaging process, and how to determine imaging strategy and image servicing opportunities in Windows 7.

Lessons

- Overview of Windows 7 Installation Architecture
- Overview of the Imaging Process
- Determining the Image Strategy
- Selecting the Image Servicing Methods

Lab: Determining the Windows 7 Imaging Strategy

Module 5: Deploying Windows 7 by Using WAIK

This module explains the underlying computer imaging architecture of Windows AIK 2.0, which can be used to create and deploy a custom Windows 7 desktop image.

Lessons

- Overview of WAIK 2.0
- Building a Reference Windows 7 Image by Using Windows SIM and Sysprep
- Managing the Windows Preinstallation Environment
- Capturing, Applying, and Servicing a Windows 7 Image

Lab: Installing WAIK

Lab: Building a Reference Image Using Windows SIM and Sysprep

Lab: Creating Windows PE Boot Media

Lab: Capturing and Applying a Windows 7 Image Using ImageX

Lab: Servicing Images by Using DISM

Module 6: Deploying Windows 7 by Using Windows Deployment Services

This module describes how WDS can be used to deploy custom system images to client computers located within the network infrastructure.

Lessons

- Overview of WDS
- Designing and Configuring WDS for Windows 7 Deployment

Lab: Deploying Windows 7 by Using Windows Deployment Services

Module 7: Deploying Windows 7 by Using Lite Touch Installation

This module describes how to design the Lite Touch Installation (LTI) environment, and provides you with an overview of the techniques that you can use to build and deploy Windows 7 using the MDT and the LTI scenario.

Lessons

- Designing the Lite Touch Installation Environment
- Implementing MDT 2010 for Deploying Windows 7

Lab: Planning and Configuring MDT 2010

Lab: Deploying Windows 7 by Using Lite Touch Installation

Module 8: Deploying Windows 7 by Using Zero Touch Installation

This module describes the necessary prerequisites and procedures for deploying the Windows 7 operating system using Zero Touch Installation methodology.

Lessons

- Designing the Zero Touch Installation Environment
- Performing Zero-touch Installation of Windows 7 by using MDT 2010 and Configuration Manager 2007

Lab: Deploying Windows 7 by Using Zero Touch Installation

Module 9: Migrating User State by Using WET and USMT 4.0

This module explains user state migration, and how to use tools, such as Windows Easy Transfer and the Microsoft Windows User State Migration Tool (USMT), in various migration scenarios.

Lessons

- Overview of User State Migration
- Overview of USMT 4.0
- Planning User State Migration (USMT 4.0)
- Migrating User State by Using USMT 4.0

Lab: Migrating User State by Using Windows Easy Transfer

Lab: Migrating User State by Using the User State Migration Tool 4.0

Lab: Migrating User State by Using State using Hard Link Migration

Module 10: Designing, Configuring, and Managing the Client Environment

This module examines how to design, configure, and manage Windows 7 client configurations. Specifically, it discusses Group Policy, Internet Explorer, and system security settings.

Lessons

- Overview of Planning Client Configuration
- Designing and Configuring Standard System Settings
- Designing and Configuring Internet Explorer Settings
- Designing and Configuring Security Settings
- Designing and Implementing Group Policy
- Troubleshooting Group Policy

Lab: Designing and Configuring the Client Environment**Lab: Troubleshooting GPO Issues****Module 11: Planning and Deploying Applications and Updates to Windows 7 Clients**

This module discusses the implications of deploying applications to Windows 7 clients including Microsoft Office 2007. It also discusses the use of Windows Server Update Services (WSUS).

Lessons

- Determining the Application Deployment Method
- Deploying the 2007 Microsoft Office System
- Planning and Configuring Desktop Updates by Using WSUS

Lab: Determining the Application Deployment Method**Lab: Customizing the Microsoft Office Professional Plus 2007 Installation****Lab: Planning and Managing Updates by Using WSUS****Module 12: Planning and Deploying Windows 7 by Using LTI**

This module is a comprehensive lab that gives the students an opportunity to perform an end-to-end deployment of Windows 7 by using the LTI.

Lessons

- Deploying Windows 7 – Challenge Scenario

Lab: Planning an End-to-End Windows 7 LTI Deployment**Lab: Deploying Windows 7 using the LTI Deployment Plan**