



## Course M6294-ILT

### Planning and Managing Windows 7 Desktop Deployments and Environments

Five days, Instructor-Led

#### INTRODUCTION

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 PROFILE

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. For example, domain user accounts, domain vs. local user accounts, user profiles, and group membership.
- 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 and troubleshooting permissions and other settings to allow access to resources and applications on Windows 7 Systems.
- 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.
- The ability to work in a team/virtual team
- Trained and mentored others

#### 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



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- 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 Licensing and Activation

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

- Assessing the Computing Environment by Using Microsoft Assessment and Planning Toolkit

#### **Lab: Recommending a Licensing Strategy**

- Determining the Activation Method

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### 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**

- Installing and Configuring ACT
- Collecting Application Inventory
- Organizing the Application Inventory
- Analyzing Application Inventory Results

#### **Lab: Creating Application Compatibility Fixes**

- Identifying Application Compatibility Issues
- Mitigating Application Issues

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### 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**

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- Determining Windows 7 Deployment Methods

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#### 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**

- Determining the Windows 7 Image Strategy

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#### 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**

- Install the Windows Automated Installation Kit
- Identify Resources and Tools included with the Windows Automated Installation Kit

##### **Lab: Building a Reference Image Using Windows SIM and Sysprep**

- Building a Custom Answer File by Using Windows SIM
- Installing a Reference Computer using a Custom Answer File
- Generalizing a Reference Computer by Using Sysprep

##### **Lab: Creating Windows PE Boot Media**

- Adding Packages and Drivers to Windows PE
- Creating a Bootable Windows PE ISO Image
- Starting the Windows PE Operating System Environment

##### **Lab: Capturing and Applying a Windows 7 Image Using ImageX**

- Capturing an Image Using ImageX



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- Apply an Image Using ImageX

#### Lab: Servicing Images by Using DISM

- Servicing a Reference image using DISM

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## 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

- Designing the WDS Environment
- Installing and Configuring the WDS Server Role
- Adding Boot and Install Images to WDS
- Provisioning Drivers by Using WDS
- Deploying a Desktop Operating System Using WDS

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## 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

- Planning the MDT Lite Touch Environment
- Installing MDT 2010 and Additional Component Files
- Configuring the Deployment Share
- Creating a Task Sequence

#### Lab: Deploying Windows 7 by Using Lite Touch Installation

- Updating the Deployment Share to Generate Windows PE Media
- Installing Windows 7 Using Lite Touch Installation

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## 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.



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#### 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

- Planning the Zero Touch Installation Environment
- Preparing the Zero Touch Installation Environment
- Configuring Deployment Packages and System Images
- Configuring and Advertising a Client Task Sequence

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### 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

- Preparing the Window Easy Transfer Source Files
- Capturing User State Information from a Source Computer
- Loading User State Information to a Target Computer

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

- Planning for the User State Migration
- Creating USMT Migration Scripts
- Capturing and Restoring User State by Using USMT
- Performing a Hard-Link Migration

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

- Performing a Hard-Link Migration

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### 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



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- 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

- Designing a Client Environment
- Implementing a Client Configuration

#### Lab: Troubleshooting GPO Issues

- Resolving a GPO Application Problem

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## 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 Office 2007
- Planning and Configuring Desktop Updates by Using WSUS

#### Lab: Determining the Application Deployment Method

- Determining the Application Deployment Method

#### Lab: Customizing the Microsoft Office Professional Plus 2007 Installation

- Configuring the Setup Category
- Configuring the Features Category
- Installing Microsoft Office Professional Plus By Using the Setup Customization File

#### Lab: Planning and Managing Updates by Using WSUS

- Planning Automatic Updates Settings
- Configuring Automatic Updates Settings by Using Group Policy
- Approving and Deploying an Update by Using WSUS

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## 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.

#### Lab: Planning an End-to-End Windows 7 LTI Deployment

- Planning the MDT Lite Touch Environment

#### Lab: Deploying Windows 7 using the LTI Deployment Plan

- Performing a Network Assessment



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- Configuring MDT 2010 for an LTI Deployment
- Configuring WDS for a PXE and Multicast Deployment
- Configuring an MDT 2010 Deployment Share
- Creating the Reference Computer
- Preparing the Deployment Task Sequences
- Performing an Upgrade on Target Computers