Course 6294A:

Planning and Managing Windows 7 Desktop Deployments and Environments

Course Details

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

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

Lab : Recommending an Activation Strategy

- Review the Activation Scenario

After completing this module, students will be able to:
- Describe the client, hardware, and desktop deployment lifecycles.

- Explain the challenges involved and considerations for deploying desktops.

- Describe the tools and technologies that are used in the desktop deployment lifecycle.

- Assess the current computing environment to determine the feasibility of deploying Windows 7.

- Design the licensing and activation strategy for a given business scenario.

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

After completing this module, students will be able to:

- Describe the process and guidelines for resolving common application compatibility issues during an operating system deployment.

- Inventory, analyze, and mitigate application compatibility issues by using ACT 5.5.

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

- Determining Windows 7 Deployment Methods

After completing this module, students will be able to:

- Determine the feasibility of installing Windows 7 by using in-place deployment.

- Determine the feasibility of installing Windows 7 by using side-by-side deployment.

- Determine the feasibility of using the Lite Touch deployment method for deploying Windows 7 in a given business scenario.

- Determine the feasibility of using the Zero Touch deployment method for deploying Windows 7 in a given business scenario.

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

After completing this module, students will be able to:
- Explain the Windows 7 installation architecture.

- Explain the different phases of the imaging process.

- Determine the appropriate Windows 7 imaging strategy based on specific business requirements.

- Select appropriate image servicing methods to service Windows 7 images based on specific business requirements.

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

- Apply an Image Using ImageX

Lab : Servicing Images by Using DISM

- Servicing a Reference image using DISM

After completing this module, students will be able to:
- Explain the key features and functionality provided by WAIK 2.0.

- Build a reference Windows 7 image by using Windows SIM and Sysprep.

- Create a custom Windows PE bootable image.

- Capture, apply, and service a Windows 7 image.

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

After completing this module, students will be able to:
- Explain how WDS can be used to deploy Windows 7.

- Design and configure WDS for Windows 7 deployment.

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

After completing this module, students will be able to:
- Design the Lite Touch installation environment for deploying Windows 7.

- Perform Lite Touch installation of Windows 7 by using MDT 2010.

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

- 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

After completing this module, students will be able to:
Design the Zero Touch installation environment for deploying Windows 7.
Perform the Zero Touch installation of Windows 7 by using MDT 2010 and Configuration Manager 2007.

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

After completing this module, students will be able to:

- Migrate user state by using WET.

- Explain how USMT 4.0 can be used to migrate user state.

- Plan for user state migration.

- Migrate user state by using USMT 4.0.

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

- Designing a Client Environment

- Implementing a Client Configuration

Lab : Troubleshooting GPO Issues

- Resolving a GPO Application Problem

After completing this module, students will be able to:

- Determine the method for implementing the client configuration.

- Design and configure standard system settings on Windows 7 client computers.

- Design and configure Internet Explorer settings on Windows 7 client computers.

- Design and configure security settings on Windows 7 client computers.

- Design and implement group policy for configuring Windows 7 client computers.

- Troubleshoot group policy 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

- 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

After completing this module, students will be able to:
- Determine an appropriate application deployment method based upon business requirements.

- Customize and deploy Office 2007 based on business requirements.

- Plan and configure desktop updates by using WSUS.

Module 12: Deploying Windows 7 – Challenge Scenario

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

- Planning the MDT Lite Touch Environment

Lab : Deploying Windows 7 using the LTI Deployment Plan

- Performing a Network Assessment

- 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

After completing this module, students will be able to:

- Plan an end-to-end Windows 7 LTI deployment.

- Deploy Windows 7 by using the LTI deployment plan.