

Course 20695A:

Deploying Windows Devices and Enterprise Apps

Course Details

Course Outline

Module 1: Assessing the Network Environment for Supporting Operating System and Application Deployment

This module provides an overview of the enterprise desktop life cycle. It explains how to assess hardware and infrastructure readiness for a desktop deployment, and how to use the Microsoft Assessment and Planning Toolkit (MAP) to assess deployment readiness.

Lessons

- Overview of the Enterprise Desktop Life Cycle
- Assessing Hardware and Infrastructure Readiness for a Desktop Deployment
- Using MAP to Assess Deployment Readiness

Lab : Assessing the Network Environment for Supporting Operating System and Application Deployment

- Collecting Hardware and Application Inventory by Using Configuration Manager
- Determining Infrastructure Readiness by Using MAP

After completing this module, students will be able to:

- Describe the enterprise desktop life cycle
- Assess hardware and infrastructure readiness for a desktop deployment
- Use MAP to assess deployment readiness

Module 2: Determining Operating System Deployment Strategies

This module explains how to identify the most appropriate operating system deployment strategy based upon organizational requirements. It describes tools and deployment strategies, different types of operating system deployments, and alternative deployment strategies for desktop computers.

Lessons

- Tools and Deployment Strategies for an Effective Operating System Deployment Strategy
- Operating System Deployment Using High-Touch with Retail Media

- Operating System Deployment Using High-Touch with Standard Image
- Operating System Deployment Using Lite-Touch
- Operating System Deployment Using Zero-Touch
- Alternative Deployment Strategies for Windows Desktops

Lab : Determining Operating System Deployment Strategies

- Identifying Operating System Deployment Strategies for a Small Network
- Identifying Operating System Deployment Strategies for a Medium-Sized Network
- Identifying Operating System Deployment Strategies for an Enterprise Network
- Installing the Windows Automated Deployment Kit

After completing this module, students will be able to:

- Describe tools and strategies for an effective operating system deployment strategy.
- Describe operating system deployment using high-touch with retain media.
- Describe operating system deployment using high-touch with standard image.
- Describe operating system deployment using lite-touch.
- Describe operating system deployment using zero-touch.
- Describe alternative deployment strategies for Windows desktops.

Module 3: Assessing Application Compatibility

This module explains how to assess application compatibility issues and identify mitigation solutions to ensure that applications function successfully after an operating system deployment. It also describes how to use ACT to address application compatibility issues.

Lessons

- Diagnosing Application Compatibility Issues
- Mitigating Application Compatibility Issues
- Using ACT to Address Application Compatibility Issues

Lab : Assessing Application Compatibility

- Analyzing Applications for Potential Compatibility Issues
- Mitigating Application Compatibility Issues

After completing this module, students will be able to:

- Diagnose application compatibility issues.
- Mitigate application compatibility issues.
- Use ACT to address application compatibility issues.

Module 4: Planning and Implementing User State Migration

This module describes user state migration strategies, and explains how to configure these strategies during operating system deployments.

Lessons

- Overview of User State Migration
- Overview of USMT 5.0
- Planning User State Migration
- Migrating User State by Using USMT

Lab : Planning and Implementing User State Migration

- Planning for User State Migration
- Creating and Customizing USMT XML Files
- Capturing and Restoring User State by Using USMT

After completing this module, students will be able to:

- Describe user state migration.
- Identify the features of USMT 5.0.
- Plan user state migration.
- Migrate user state by using USMT.

Module 5: Determining an Image Management Strategy

This module describes the Windows image file format, and provides an overview of image management. It also explains how to determine the most appropriate image management strategy to support operating system and application deployments.

Lessons

- Overview of the Windows Image File Format
- Overview of Image Management

Lab : Determining an Image Management Strategy

- Assessing Business Requirements to Support an Image Management Strategy

After completing this module, students will be able to:

- Describe the purpose and benefits of the Windows image file format.
- Describe image management.

Module 6: Preparing For Deployments Using Windows ADK

This module describes the tools provided in Windows ADK, and explains how to use them to prepare for and support automated deployment strategies.

Lessons

- Overview of the Windows Setup and Installation Process
- Preparing Boot Images Using Windows PE
- Automating and Preparing the Installation of an Image Using Windows SIM and Sysprep
- Capturing and Servicing a Reference Image

Lab : Preparing the Imaging and Windows PE Environment

- Configuring a Custom Windows PE Environment

Lab : Building a Reference Image by Using Windows SIM and Sysprep

- Building Custom Answer Files by Using Windows SIM
- Installing a Reference Computer by Using a Custom Answer File
- Customizing Image in Audit Mode and Preserve the Profile Changes Using Sysprep

Lab : Capturing and Servicing a Reference Image

- Capturing a Reference System Image
- Servicing a Reference Image

After completing this module, students will be able to:

- Describe the Windows installation process.
- Describe how to use and customize Windows PE.
- Use Windows SIM and Sysprep to automate and prepare images.
- Capture and service a reference image.

Module 7: Supporting PXE-Initiated and Multicast Operating System Deployments

This module explains how to identify solutions to support PXE-initiated and multicast solutions when performing operating system deployment tasks. It also describes the process of installing and configuring the Windows DS environment.

Lessons

- Overview of PXE-Initiated and Multicast Operating System Deployments
- Installing and Configuring the Windows DS Environment

Lab : Configuring Windows DS to Support PXE and Multicast Operating System Deployments

- Planning the Windows DS Environment

- Installing and Configuring the Windows DS Server Role

After completing this module, students will be able to:

- Describe PXE-initiated and multicast operating system deployments.
- Explain the process for installing and configuring the Windows DS environment.

Module 8: Implementing Operating System Deployment by Using the Microsoft Deployment Toolkit

This module explains how to configure an operating system deployment strategy using the Microsoft Deployment Toolkit. It describes how to plan for the MDT environment, implement MDT 2013, and integrate Windows DS with MDT.

Lessons

- Planning for the MDT Environment
- Implementing MDT 2013
- Integrating Windows DS with MDT

Lab : Operating System Deployment using the Microsoft Deployment Toolkit

- Planning for the MDT Environment
- Installing MDT 2013 and Prerequisites
- Creating and Configuring the MDT 2013 Deployment Share
- Deploying and Capturing a Reference Operating System Image

After completing this module, students will be able to:

- Describe the MDT components and process for a lite-touch deployment strategy.
- Install and configure the MDT environment.
- Describe how you can configure Windows DS to integrate with MDT 2013.

Module 9: Implementing Operating System Deployment by Using System Center 2012 R2 Configuration Manager

This module describes operating system deployment, and the process of preparing the site for operating system deployment. It also explains how to configure an operating system deployment strategy using System Center 2012 R2 Configuration Manager.

Lessons

- Overview of Operating System Deployment
- Preparing the Site for Operating System Deployment
- Deploying an Operating System Image

Lab : Preparing the Site for Operating System Deployment

- Managing Site System Roles Used to Support Operating System Deployment
- Managing Packages to Support Operating System Deployment

Lab : Deploying Operating System Images for Bare-Metal Installations

- Preparing the Operating System Image
- Creating a Task Sequence to Deploy an Image
- Deploying an Image

After completing this module, students will be able to:

- Describe operating system deployment.
- Prepare the site for operating system deployment.
- Deploy an operating system image.

Module 10: Integrating MDT and Configuration Manager for Operating System Deployment

This module explains how to integrate MDT with Configuration Manager to support operating system deployment procedures. It also reviews the features provided by integrating MDT and Configuration Manager.

Lessons

- Integrating Deployment Tools with Configuration Manager
- Reviewing the Features Provided by Integrating MDT and Configuration Manager

Lab : Integrating MDT and Configuration Manager for Operating System Deployment

- Integrating MDT and Configuration Manager
- Creating an MDT Boot Disk
- Creating and Deploying an MDT Task Sequence Using Configuration Manager

After completing this module, students will be able to:

- Describe the integration of deployment tools with Configuration Manager.
- Describe the features provided by integrating MDT and Configuration Manager.

Module 11: Activating Clients and Managing Additional Configuration Settings

This module explains how to implement volume license activation and determine configuration settings for client computers. It also describes the different volume license activation solutions.

Lessons

- Volume License Activation Solutions
- Determining Additional Configuration Client Settings

Lab : Configuring Additional Settings for Computer Clients

- Creating a Common Windows Start Screen and Custom Power Plan
- Creating a Client Preferences GPO

After completing this module, students will be able to:

- Describe volume activation solutions.
- Determine additional configuration client settings.

Module 12: Deploying Office 2013

This module explains how to customize and deploy Microsoft Office 2013 to an enterprise network environment. It describes the methods for deploying Office 2013, customizing Office deployments, and deploying Office 2013 from Office 365.

Lessons

- Methods for Deploying Microsoft Office 2013 Editions
- Customizing Office Deployments
- Deploying Office 2013 from Office 365
- Considerations for Deploying Office 2013 Using App-V
- Managing Office Settings

Lab : Deploying Microsoft Office 2013 Using the Office Customization Tool

- Using OCT to Customize an Office 2013 Deployment
- Deploying a Click-to-Run version of Office 2013

After completing this module, students will be able to:

- Describe the methods for deploying Microsoft Office 2013 editions.
 - Customize Office deployments.
 - Deploy Office 2013 from Office 365.
 - Describe considerations for deploying Office 2013 using App-V.
 - Manage Office settings.
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