Deploying Windows Desktops and Enterprise Applications

Duration: 5 Days   Course Code: M20695   Version: B

Overview:
This five-day course describes how to assess operating system and application deployment options, determine the most appropriate deployment strategy, and then implement a lite-touch or zero-touch deployment solution for Windows devices and apps. Solutions that this course covers include operating system deployment scenarios using the Microsoft Deployment Toolkit (MDT) and System Center 2012 R2 Configuration Manager.

Target Audience:
This course is intended for IT professionals who deploy, manage, and maintain PCs, devices, and apps across medium/large/enterprise organizations, and for individuals who are interested in taking the Microsoft Certified Solutions Expert (MCSE) exam 70-695: Deploying Windows Devices and Enterprise Apps.

Objectives:
- Assess the network environment for supporting operating system and application deployment.
- Determine operating system deployment strategies.
- Assess application compatibility.
- Plan and implement user state migration.
- Determine an image management strategy.
- Prepare for deployments using the Windows Assessment and Deployment Kit (Windows ADK).
- Support PXE-initiated and multicast operating system deployments.
- Implement operating system deployment by using the MDT.
- Implement operating system deployment by using System Center 2012 R2 Configuration Manager.
- Integrate MDT and Configuration Manager for operating system deployment.
- Activate clients and manage additional configuration settings.
- Deploy Office 2013.

Prerequisites:
- Before attending this course, students must have system administrator-level working knowledge of:
  - Networking fundamentals, including common networking protocols, topologies, hardware, media, routing, switching and addressing.
  - Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management.
  - Installation, configuration, and troubleshooting for Windows-based personal computers.
  - Basic concepts of Public Key Infrastructure (PKI) security.
  - Basic understanding of scripting and Windows PowerShell syntax.
  - Basic understanding of Windows Server roles and services.
  - Basic understanding of management tasks using System Center 2012 R2 Configuration Manager.
Content:

Module 1: Assessing the Network Environment for Supporting Operating System and Application Deployment
- 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
- Using MAP to Determine Infrastructure Readiness

Module 2: Determining Operating System Deployment Strategies
- Understanding the Tools and Strategies That Are Available for an Effective Operating System Deployment
- Operating System Deployment by Using High-Touch with Retail Media
- Operating System Deployment by Using High-Touch with Standard Image
- Operating System Deployment by Using Lite-Touch
- Operating System Deployment by Using a Zero-Touch Strategy
- 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 ADK

Module 3: Assessing Application Compatibility
- 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

Module 4: Planning and Implementing User State Migration
- 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

Module 5: Determining an Image Management Strategy
- 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

Module 6: Preparing For Deployments Using Windows ADK
- Overview of the Windows Setup and Installation Process
- Preparing Boot Images Using Windows PE
- Using Windows SIM and Sysprep to Automate and Prepare an Image Installation
- 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 Your Image in Audit Mode, and Preserving the Profile Changes by Using Sysprep
- Lab: Capturing and Servicing a Reference Image
- Capturing a Reference System Image
- Servicing a Reference Image

Module 7: Supporting PXE-Initiated and Multicast Operating System Deployments
- Overview of PXE-Initiated and Multicast Operating System Deployments
- Installing and Configuring the Windows Deployment Services Environment
- Lab: Configuring Windows Deployment Services to Support PXE and Multicast Operating System Deployments
- Planning the Windows Deployment Services Environment
- Installing and Configuring the Windows Deployment Services Server Role

Module 8: Implementing Operating System Deployment by Using the Microsoft Deployment Toolkit
- Planning for the MDT Environment
- Implementing MDT 2013
- Integrating Windows Deployment Services with MDT
- Use OCT to customize an Office 2013

Module 9: Implementing Operating System Deployment by Using System Center 2012 R2 Configuration Manager
- An Overview of Deploying Operating Systems
- Preparing a Site for Operating System Deployment
- Deploying an Operating System
- Lab: Preparing a Site for Operating System Deployment
- Managing the Site System Roles that Support Operating System Deployment
- Managing Packages to Support Operating System Deployment
- Lab: Deploying Operating System Images for Bare-Metal Installations
- Prepare the Operating System Image
- Creating a Task Sequence to Deploy an Image
- Deploying an Image

Module 10: Integrating MDT and Configuration Manager for Operating System Deployment
- Integrating Deployment Tools with Configuration Manager
- 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 Image
- Creating and Deploying an MDT Task Sequence by Using Configuration Manager

Module 11: Activating Clients and Managing Additional Configuration Settings
- Solutions for Volume-License Activation
- Determining Additional Configuration Client Settings
- Lab: Configuring Additional Settings for Computer Clients
- Planning for Windows 8.1 customization
- Creating a Common Windows Start Screen and Custom Power Plan
- Create a Client Preferences GPO

Module 12: Deploying Microsoft Office 2013
- Methods for Deploying Microsoft Office 2013 Editions
- Customizing Office Deployments
- Deploy Office 2013 by Using Office 365
- Considerations for Deploying Office 2013 by Using App-V
- Managing Office Settings
- Lab: Deploying Microsoft Office 2013 by Using the Office Customization Tool
- Use OCT to customize an Office 2013
Planning for User State Migration
Creating and Customizing USMT XML Files
Capturing and Restoring a User State by Using the USMT

Lab: Using the MDT to Deploy Operating Systems
Planning for the MDT Environment
Installing MDT 2013, and Addressing MDT 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 methods for deploying Microsoft Office 2013 editions.
- Customize Office deployments.
- Deploy Office 2013 by using Office 365.
- Explain the considerations for deploying Office 2013 by using App-V.
- Manage Office 2013 settings.

Further Information:
For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931
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