Netec Digital

Certificaciones Profesionales enTI

Temario

CURSO

OD20695C Deploying Windows Desktops and Enterprise Applications

Microsoft Partner

Gold Learning

Course Outline

Module 1: Deploying Windows Desktops and Enterprise Applications

This module examines how you can plan for an effective deployment strategy by identifying the phases of the Enterprise Desktop life-cycle. It also introduces methods used to assess readiness to ensure your network environment can efficiently and effectively deploy the Windows 10 client operating system.

Lessons

- Overview of the enterprise desktop life cycle
- Assessing readiness for a Windows desktop deployment
- Assessing deployment readiness by using MAP
- Assessing deployment readiness by using Windows Analytics

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

After completing this module, students will be able to:

- Identify the phases of the Enterprise Desktop Life Cycle model.
- Assess readiness for a desktop deployment.
- Use the Microsoft Assessment and Planning Toolkit (MAP) to assess deployment readiness.
- Use Windows Analytics to assess Windows deployment readiness.

Module 2: Determining Windows Deployment Strategies

This module describes traditional and more modern strategies that can be used to perform a successful operating system deployment. It also helps you to identify the most appropriate operating system deployment strategy for your environment, based upon organizational requirements.

Lessons

- Understanding tools and strategies used for operating system deployment
- Using the High Touch with Retail Media deployment strategy
- Using the High Touch with a Standard Image deployment strategy
- Using a lite or zero-touch deployment strategy
- Using modern and dynamic deployment strategies
- 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

After completing this module, students will be able to:

- Describe tools and strategies that are available for an effective operating system deployment.
- Evaluate the high-touch with retail media deployment strategy.
- Describe the high-touch with standard image deployment strategy.
- Describe the concepts of Lite-Touch and Zero-Touch deployments.
- Describe modern and dynamic deployment strategies.
- Describe alternative deployment strategies for Windows 10.

Module 3: Assessing Application Compatibility

This module describes the process for addressing common application compatibility issues that you might experience during a new operating system deployment. The module also explains how to use application compatibility tools to help inventory, analyze, and mitigate application compatibility issues.

Lessons

- Diagnosing application compatibility issues
- Mitigating application compatibility issues
- Using ACT tools to address application compatibility issues

Lab : Assessing application compatibility

- Configuring Windows Analytics Upgrade Readiness
- Mitigating application compatibility issues

After completing this module, students will be able to:

- Describe application compatibility and the tools used to diagnose and remediate issues.
- Identify common mitigation methods for application compatibility issues.
- Configure and use the Application Compatibility tools to address application compatibility issues.

Module 4: Planning and Implementing User State Migration

This module introduces user state migration, and the tools and methods that are useful in the planning and implementation of a user state migration in the Windows software environment.

Lessons

- Overview of user state migration
- Overview of USMT 10.0
- 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 a user state by using the USMT

After completing this module, students will be able to:

- Describe the concept of user state migration and identify the features available in the User State Migration Tool (USMT) 10.0 to assist in the migration task.
- Identify the toolset included in the User State Migration Tool (USMT) 10.0.
- Plan the appropriate scenario, data to be migrated, and storage location for a user state migration task.
- Migrate user state by using the User State Migration Tool (USMT).

Module 5: Managing images and deployments using the Windows ADK

This module provides information on image management strategies to support operating system and application deployments. This module also describes how Windows Setup installs the Windows operating system and explains how to use the tools in the Windows ADK to prepare for and support automated deployment strategies.

Lessons

- Overview of image management
- Overview of the Windows Setup and installation process
- Preparing boot images by using Windows PE

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

After completing this module, students will be able to:

- Determine the type and content of images used in an image management strategy.
- Describe the Windows Setup and Installation process.
- Prepare boot images using Windows PE.
- Automate installations and prepare images using Windows SIM and Sysprep.
- Capture, apply, and service images using the DISM tool.

Module 6: Supporting PXE-Initiated and Multicast Operating System Deployments

This module introduces the architecture of network boot, Pre-Boot Execution Environment (PXE)-initiated operating system deployments, multicasting operating system delivery, and the Windows Deployment Services (Windows DS) functionality in Windows Server 2016.

Lessons

- Overview of PXE-initiated and multicast operating system deployments
- Installing and configuring Windows Deployment Services

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

After completing this module, students will be able to:

- Describe the considerations for using PXE-initiated and multicast operating system deployments.
- Describe deployment considerations and the services that are included in the Windows Deployment Services server role.

Module 7: Operating System Deployment Using the Microsoft Deployment Toolkit

This module describes the components of the Microsoft Deployment Toolkit (MDT), and how you can configure an operating system deployment strategy by using the MDT.

Lessons

- Planning for the MDT environment
- Implementing MDT
- Integrating Windows Deployment Services with MDT

Lab : Operating system deployment using the MDT

- Planning for the MDT environment
- Installing MDT and addressing MDT prerequisites
- Creating and configuring the deployment share
- Deploying and capturing a reference operating system image

After completing this module, students will be able to:

- Describe the MDT deployment strategy and related components.
- Install and configure the MDT environment.
- Describe how to configure Windows Deployment Services to integrate with MDT.

Module 8: Operating System Deployment Using System Center Configuration

This module provides an overview of operating system deployments, and explains how to use Configuration Manager to configure an operating system deployment strategy.

Lessons

- Overview of operating system deployment
- Preparing a site for operating system deployment
- Deploying an operating system

Lab : Preparing the site for operating system deployment

- Managing the site system roles used to support operating system deployment
- Managing packages to support operating system deployment
- Deploying an operating system

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 the terminology, components, and scenarios used to deploy operating systems by using System Center Configuration Manager.
- Prepare a site for operating system deployment using Configuration Manager.
- Describe how to deploy operating systems using Configuration Manager.

Module 9: Integrating MDT and Configuration Manager for Operating System Deployment

This module explains how to integrate the MDT with Configuration Manager to support operating system deployment procedures. It also describes the benefits of integrating the MDT with Configuration Manager.

Lessons

- Integrating deployment tools with Configuration Manager
- Integrating MDT with 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

Lab : Configuring UDI

- Creating a UDI task sequence
- Deploying Windows 10 by using a UDI task sequence

After completing this module, students will be able to:

- Describe the benefits and process for integrating MDT and Configuration Manager.
- Describe MDT-integrated boot disk and task sequence options.

Module 10: Automating Windows Deployment using Modern Deployment Techniques

This module explains how to prepare for and deploy Windows 10 using modern deployment techniques such as Windows Autopilot, Windows Configuration Designer, and Configuration Manager Servicing.

Lessons

- Using Windows Autopilot to deploy Windows devices
- Using the Windows Configuration Designer to provision Windows devices
- Using Configuration Manager Servicing to Manage Windows 10

Lab : Configuring Windows Autopilot for operating system deployment

- Configuring Microsoft Store for Business to support Windows Autopilot
- Obtaining hardware IDs and add devices to Windows Autopilot
- Creating and applying the Autopilot deployment profile

Lab : Using the Windows Configuration Designer to provision Windows devices

- Create a provisioning package
- Creating a Windows 10 deployment package

Lab : Using Configuration Manager Servicing Plans to Manage Windows 10 devices

- Configuring software updates to support Windows 10 upgrades
- Creating a Windows 10 servicing plan
- Deploying a Windows 10 servicing plan to Configuration Manager client devices

After completing this module, students will be able to:

- Describe the benefits, features, and process for using Windows Autopilot to deploy Windows devices.
- Describe how Windows Configuration Designer is used to create provisioning packages and custom images for Windows 10 deployments.
- Describe how Configuration Manager servicing is used to upgrade and manage Windows 10 devices.

Module 11: Managing Volume License Activation and Additional Configuration Settings

This module describes volume license activation solutions. It also explains how to implement volume license activation and implement post-deployment configuration settings for client computers.

Lessons

- Solutions for volume license activation
- Determining additional client configuration settings

Lab : Configuring post-deployment settings for Windows devices

- Planning for Windows 10 customization
- Creating a common Windows Start menu and custom power plan
- Create a client preferences GPO

After completing this module, students will be able to:

- Describe and implement volume license activation solutions.
- Describe common post-deployment configuration tasks.

Module 12

This module explains how to deploy Microsoft Office using both MSI installation and Office 365 deployment. It also describes managing other application deployments such as the Microsoft Store for Business.

Lessons

- Methods for deploying Microsoft Office
- Customizing Office deployments
- Deploy Office apps by using Office 365
- Managing Office settings
- Using Microsoft Store for Business for App Deployment
- Deploy apps using the Microsoft Store for Business

Lab : Deploying Microsoft Office

- Using the Microsoft Office Customization Tool (OCT) to customize a Microsoft Office 2016 deployment
- Deploying a customized version of Office 2016
- Deploying a customized version of Office 2016

Lab : Deploying apps using Microsoft Store for Business

- Configuring Microsoft Store for Business
- Using Microsoft Store for Business to deploy apps

After completing this module, students will be able:

- Identify installation and deployment methods for Microsoft Office.
- Customize an Office 2016 deployment.
- Deploy Office apps using Office 365.
- Manage Office settings after deployment.
- Describe Microsoft Store for Business.
- Describe methods to deploy applications using the Microsoft Store for Business.

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