Deploying Windows Desktops And Enterprise Applications (20695)

Course: **00032**

Filter: **Beginner**

Duration: **3 days**

Category:: **Programming**

Price: **2800,00 €**

About Course

This five-day course describes how to assess operating system and application deployment options, determine the most appropriate deployment strategy, and then implement a deployment solution for Windows devices and apps that meets your environment's needs. Solutions that this course details include operating system deployment scenarios ranging from high-touch solutions to zero touch solutions. It also discusses the technologies that you use to implement these solutions, including the MDT and Configuration Manager. This is a Microsoft Official Course (MOC) delivered by a Learning Tree expert instructor. This course is part of a Microsoft Certification Path and can help you prepare for your MCSA Certification, MCSE Certification, or MCSD Certification. Enhance your Microsoft skills and take your career to the next level with our Microsoft Training Success Pack.

What you'll learn

- Assess the network environment to support operating system and application deployment tasks
- Identify the most appropriate operating system deployment strategy based upon organizational requirements
- Assess application compatibility issues and identify mitigation solutions to ensure that applications function successfully after an operating system deployment
- Describe and configure strategies to migrate user state during operating system deployments
- Determine the most appropriate image management strategy to support operating system and application deployments

- Describe and use the tools provided in the Windows ADK to prepare for and support automated deployment strategies
- Identify solutions to support PXE-initiated and multicast solutions when performing operating system deployment tasks
- Configure an operating system deployment strategy by using the MDT
- Configure an operating system deployment strategy using Configuration Manager
- Integrate the MDT with Configuration Manager to support operating system deployment procedures
- Implement volume license activation and configuration settings for client computers
- Customize and deploy Microsoft Office 2016 to an enterprise network environment, and describe how to use the Windows ICD

Pre-requisites

None

Curriculum

Module 1: Assessing the network environment for supporting operating system and application deployment

- Overview of the enterprise desktop life cycle
- Assessing readiness for a desktop deployment by using Configuration Manager
- Assessing deployment readiness by using MAP
- Collecting hardware and application inventory by using Configuration Manager
- Using MAP to determine infrastructure readiness
- Describe the enterprise desktop life cycle
- Assess an environment's readiness for a desktop deployment by using Configuration Manager
- Assess an environment's deployment readiness by using MAP

Module 2: Determining operating system deployment strategies

- Understanding tools and strategies you can use 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 touch deployment strategy
- Using a zero touch deployment strategy
- Alternative deployment strategies for Windows desktops
- 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
- Describe the tools and strategies that are available for an effective operating system deployment
- Deploy operating systems by using the High Touch with Retail Media strategy
- Deploy operating systems by using the High Touch with a Standard Image strategy
- Deploy operating systems by using the lite touch strategy
- Deploy operating systems by using the zero touch strategy
- Describe alternative deployment strategies for Windows desktops

Module 3: Assessing application compatibility

- Diagnosing application compatibility issues
- Mitigating application compatibility issues
- Using ACT to address application compatibility issues
- Analyzing applications for potential compatibility issues
- Mitigating application compatibility issues
- Describe how to diagnose application compatibility issues
- Explain the solutions available for mitigating application compatibility issues
- Resolve application compatibility issues with the ACT

Module 4: Planning and implementing user state migration

- Overview of user state migration
- Overview of USMT 10.0
- Planning user state migration
- Migrating user state by using USMT
- Planning for user state migration
- Creating and customizing USMT XML files

- Capturing and restoring a user state by using the USMT
- Describe user state migration
- Identify the features of USMT 5.0
- Plan user state migration
- Migrate user state by using the USMT

Module 5: Determining an image management strategy

- Overview of the Windows image file format
- Overview of image management
- Assessing business requirements to support an image management strategy
- Describe the purpose and benefits of the Windows image file format
- Determine image management

Module 6: Preparing for deployments by using the Windows ADK

- Overview of the Windows setup and installation process
- Preparing boot images by using Windows PE
- Using Windows SIM and Sysprep to automate and prepare an image installation
- Capturing and servicing a reference image using DISM
- Using the Windows ICD
- Configuring a custom Windows PE environment
- 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
- Capturing a reference system image
- Create a provisioning package
- Create a Windows 10 deployment package
- Describe the Windows installation process
- Describe how to use and customize Windows PE
- Use Windows System Image Manager (SIM) and Sysprep to automate and prepare images
- Capture and service 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 DS environment
- Planning the Windows DS environment
- Installing and configuring the Windows DS server role
- Identify solutions to support PXE-initiated and multicast solutions when performing operating system deployment tasks
- Install and configure the Windows DS environment

Module 8: Implementing operating system deployment by using the MDT

- Planning for the MDT environment
- Implementing MDT 2013 Update 2
- Integrating Windows DS with MDT
- Planning for the MDT environment
- Installing MDT 2013 Update 2, and addressing MDT prerequisites
- Creating and configuring the deployment share
- Deploying and capturing a reference operating system image
- Describe the MDT components and process for a lite-touch deployment strategy
- Install and configure the MDT environment
- Describe how you configure Windows DS to integrate with MDT 2013 Update 2

Module 9: Managing operating system deployment

- Overview of operating system deployment
- Preparing a site for operating system deployment
- Deploying an operating system
- Managing the site system roles used to support operating system deployment
- Managing packages to support operating system deployment
- Preparing the operating system image
- Creating a task sequence to deploy an image
- Deploying an image
- Describe the terminology, components, and scenarios used to deploy operating systems by using Configuration Manager
- Describe how to prepare a site for operating system deployment
- Describe the process used to deploy an operating system image

Module 10: Integrating MDT and Configuration Manager for operating system deployment

- Integrating deployment tools with Configuration Manager
- Integrating MDT with Configuration Manager
- Integrating MDT and Configuration Manager
- Creating an MDT boot image
- Creating and deploying an MDT task sequence by using Configuration Manager
- Creating a UDI task sequence
- Deploying Windows 10 by using a UDI task sequence
- Integrate deployment tools with Configuration Manager
- Integrate MDT with Configuration Manager

Module 11: Activating clients and managing additional configuration settings

- Solutions for volume license activation
- Determining additional client configuration settings
- Planning for Windows 10 customization
- Creating a common Windows Start menu and custom power plan
- Creating a client preferences GPO
- Explain the solutions for volume license activation
- Configure additional settings for client computers

Module 12: Deploying Office 2016

- Methods for deploying Microsoft Office 2016 editions
- Customizing Office deployments
- Deploy Office 2016 by using Office 365
- Managing Office settings
- Introducing Windows Store for Business
- Distributing apps by using Windows Store for Business
- Using the Microsoft Office Customization Tool (OCT) to customize a Microsoft Office 2016 deployment
- Deploying a customized version of Office 2016
- Identify the editions of, and deployment methods for, Office 2016
- Customize an Office 2016 deployment
- Deploy Office 2016 by using Office 365

- Manage Office 2016 settings after deployment
- Provide an overview of the Windows Store for Business
- Describe the methods you can use to deploy apps by using the Windows Store for Business