"Charting the Course ...

... to Your Success!"

MOC 6418 C Deploying Windows Server 2008

Course Summary

Description

This course will provide you with the knowledge and skills to install and deploy Windows Server 2008 R2. This course also will teach you how to automate server deployment, as well as provide guidelines, best practices, and considerations that will help you to migrate existing services to Windows Server 2008 R2.

Objectives
At the end of this course, students will be able to:

- Describe Microsoft Windows Server 2008 R2 installation and configuration options, and select an appropriate volume-licensing option for Windows Server 2008 R2.
- Deploy and configure a Windows Server 2008 R2 Server Core installation.
- Implement various Windows Server deployment technologies.
- Implement Windows 7 and Windows Server 2008 R2 deployments with Windows Deployment Services (WDS).
- Implement Windows 7 and Windows Server 2008 R2 deployments with Microsoft Deployment Toolkit 2010 (MDT 2010).
- Migrate earlier versions of Active Directory directory service to AD DS.
- Migrate file and print, and Web servers to Windows Server 2008 R2.
- Migrate remote infrastructure servers to support branch offices.
- Virtualize workloads by migrating physical servers to guests in Microsoft Hyper-V Server 2008 R2

Topics

- Windows Server 2008 Installation and Configuration
- Windows Server Core 2008 Configuration
- Windows Server 2008 Unattended Installation
- Using Windows Deployment Services
- Microsoft Deployment Toolkit
- Upgrading and Migrating Active Directory
- Upgrading File and Print, Web, and Remote Infrastructure Servers
- Migrating Workloads to Microsoft Virtual Machines
- Configuring Windows Server 2008 for Performance

Audience

This course is intended for IT professionals who are experienced with Windows Server 2003 or 2008, and who hold an MCSE or MCSA certification and/or equivalent knowledge.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

MOC 6418 C Deploying Windows Server 2008

Course Summary (cont'd)

Prerequisites

Before attending this course, students must have:

- Able to perform server and desktop installation, upgrades, and configuration
- A conceptual understanding of automated deployment
- A basic understanding of the processes in Microsoft Operations Connector Framework, Microsoft Solutions Framework, and ITIL 3.0
- Basic skills with Windows PowerShell 2.0
- Windows command line
- Understanding of, and experience with, monitoring and management tools
- Networking knowledge
- Knowledge of Active Directory Domain Services (AD DS)
- Knowledge of security
- Understanding of, and experience with, performance monitoring
- Troubleshooting skills
- Familiarity and experience with Windows PowerShell 2.0, Windows Command line, scripting of imaging and virtualization technologies, and general batch scripting.

Duration

Three days

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

"Charting the Course ...

... to Your Success!"

MOC 6418 C Deploying Windows Server 2008

Course Outline

I. Installing and Configuring Microsoft Windows Server 2008 R2

This module describes the installation options and requirements for Windows Server 2008 R2.Lessons

A. Planning Windows Server 2008 R2 Installations
B. Performing a Windows Server 2008 R2 Installation
C. Configuring Windows Server 2008 R2 Following Installation
D. Automating Server Activation Using Microsoft Volume Activation
E. Lab : Lab A: Planning to Install Windows Server 2008 R2

After completing this module, students will be able to:

- Plan Windows Server 2008 R2 installations.
- Perform a Windows Server 2008 R2 installation.
- Configure Windows Server 2008 R2 following installation.
- Automate server activation using Microsoft Volume Activation.

II. Implementing Deployment Technologies

This module describes the various deployment technologies available for use with Windows Server 2008 R2 and Windows 7.Lessons

A. Selecting a Deployment Strategy
B. Using the Windows Automated Installation Kit
C. Working with Images
D. Working with Unattended Answer Files

After completing this module, students will be able to:

- Select a suitable deployment strategy.
- Describe the Windows Automated Installation Kit (WAIK).
- Describe the different types of images.
- Perform an unattended Windows Server 2008 R2 installation.

III. Using Windows Deployment Services

This module explains how to create and deploy custom system images by using Windows Deployment Services and images.Lessons

A. Overview of Windows Deployment Services (WDS)
B. Implementing Deployment with WD
C. Maintaining Images

After completing this module, students will be able to:

- Describe the important features and functionality of WDS.
- Configure WDS in Windows Server 2008 R2.
- Perform deployments with WDS.

IV. Implementing the Microsoft Deployment Toolkit

This module explains how to deploy and create custom system images for common server configurations by using the Microsoft Deployment Toolkit.Lessons

A. Introducing the Microsoft Deployment Toolkit
B. Using the Microsoft Deployment Toolkit
C. Maintaining Images with Microsoft Deployment Toolkit

After completing this module, students will be able to:

- Describe the MDT.
- Use the MDT for low and zero-touch deployments.
- Use MDT to maintain image files.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

MOC 6418 C Deploying Windows Server 2008

Course Outline (cont'd)

V. Migrating Active Directory Directory Service

This module explains how to upgrade and migrate Active Directory directory service from Windows 2000 Server or Windows Server 2003 to Windows Server 2008 R2.Lessons

A. Overview of Upgrading Windows Server 2008 R2 Active Directory
B. Upgrading Domain Controllers to Windows Server 2008 R2

After completing this module, students will be able to:

- Describe the considerations and changes resulting from the Active Directory upgrade.
- Upgrade a legacy forest.

VI. Migrating File, Print, and Web Services

This module provides guidance for upgrading and migrating file and print servers from Microsoft Windows 2000 Server or Windows Server 2003 to Windows Server 2008 R2. This module also includes guidance for upgrading and migrating application and Web servers from Windows Server 2003 to Windows Server 2008 R2.Lessons

A. Introducing the Windows Server Migration Tools
B. Migrating File and Print Servers
C. Migrating Web and Application Servers

After completing this module, students will be able to:

- Describe the Windows Server Migration Tools.
- Upgrade file and print servers.
- Upgrade Web and application servers.

VII. Deploying Branch Office and Remote Access Services

This module provides guidance for upgrading and migrating branch offices and Remote Access Services to Windows Server 2008 R2.Lessons

A. Implementing Read-Only Domain Controllers
B. Implementing Remote Infrastructure

After completing this module, students will be able to:

- Implement read-only domain controllers (RODC) to support branch offices.
- Implement remote infrastructure features to support branch offices.

VIII.Migrating Workloads to Microsoft Virtual Machines

This module provides guidance for migrating existing workloads to a virtual machine environment using the Hyper-V Server 2008 R2 Hyper-V role.Lessons

A. Overview of Microsoft Virtualization
B. Installing Hyper-V
C. Migrating workloads to Hyper-V

After completing this module, students will be able to:

- Describe Microsoft server virtualization solutions.
- Install and configure Hyper-V.
- Plan the migration of workloads to Microsoft virtual machines.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically