

10159 – Update Window Server 2008 Technology Specialist Skills to R2

Vendor Course Code: 10159

Course Length: 3 days

Overview: This three-day instructor-led course teaches IT Professionals experienced with Windows Server 2008 Technology Specialist skills the new features of Windows Server 2008 R2. The course facilitates accelerated learning of Windows Server 2008 R2 features and features enabled in Windows Server 2008 R2 for Windows 7.

Skills Gained: **After completing this course, students will be able to:**

- Deploy and manage Windows Server 2008 R2.
- Configure Active Directory in Windows Server 2008 R2.
- Configure server virtualisation by using Hyper-V.
- Configure Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2.
- Deploy and configure Remote Access Services.
- Configure Windows Server 2008 R2 features for branch offices.
- Configure and manage Windows Server 2008 R2 Web services.
- Manage Windows Server 2008 R2 with Windows PowerShell 2.0.

Key Topics:

Course Outline

Module 1: Deploying and Managing Windows Server 2008 R2

This module explains how to deploy and manage Windows Server 2008 R2. It describes the steps to install Windows Server 2008 R2. It also explains the methods to configure Windows deployment services and the methods to migrate server roles, features, and settings to Windows Server 2008 R2. It further explains about the methods to manage Windows Server 2008 R2.

Lessons

Installing Windows Server 2008 R2

Configuring Windows Deployment Services

Migrating Server Roles, Features, and Settings to Windows Server 2008 R2

Managing Windows Server 2008 R2

Lab: Deploying Windows Server 2008 R2

Configuring and Testing Virtual Hard Disk with Native Boot

Configuring New Features in Windows Deployment Services

Migrating Server Roles

Lab: Managing Windows Server 2008 R2

Using Server Manager for Remote Administration

Removing Anonymous Access to Confidential Files Automatically

Dealing with Stale Data

Using Features in Windows Server Backup

After completing this module, students will be able to:

- Install Windows Server 2008 R2.
- Configure Windows Deployment Services.
- Migrate server roles, features, and settings to Windows Server 2008 R2.
- Manage Windows Server 2008 R2.

Module 2: Configuring Active Directory in Windows Server 2008 R2

This module explains how to configure Active Directory in Windows Server 2008 R2. It explains the steps for configuring the features of Active Directory Domain Services in Windows Server 2008 R2.

It also explains the new group policy features in Active Directory domain services in Windows Server 2008 R2. The module describes the features of other Active Directory Server roles in Windows Server 2008 R2.

Lessons

Configuring Active Directory Domain Services Features
Configuring Group Policy in Active Directory Domain Services
Features of Other Active Directory Server Roles

Lab: Configuring Active Directory Domain Services Features
Installing and Configuring the Active Directory Administration Centre.
Configuring and Testing the Active Directory Recycle Bin
Configuring Offline Domain Join

Lab: Configuring Group Policy in Active Directory Domain Services
Using Starter GPO
Using Group Policy Preferences
Implementing Application Control Policies

After completing this module, students will be able to:

- Configure the features of AD DS in Windows Server 2008 R2.
- Configure Group Policy in AD DS in Windows Server 2008 R2.
- Describe the features of Other Active Directory Server Roles in Windows Server 2008 R2.

Module 3: Configuring Server Virtualisation by Using Hyper-V

This module explains how to configure Server Virtualisation by using Hyper-V. It explains about the features of Hyper-V. It also describes how to configure Live Migration in Hyper-V and how to effectively use System Centre Virtual Machine Manager R2.

Lessons

Configuring the Features of Windows Server 2008 R2 Hyper-V
Configuring Live Migration in Hyper-V
System Centre Virtual Machine Manager R2

Lab: Configuring Server Virtualisation by Using Hyper-V
Installing and Configuring Failover Clustering
Configuring Cluster Shared Volumes
Setting Up a Virtual Machine for Live Migration

After completing this module, students will be able to:

- Describe Windows Server 2008 R2 Hyper-V.
- Configure Live Migration in Hyper-V.
- Describe System Centre Virtual Machine Manager R2.

Module 4: Configuring Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2

This module explains how to configure Remote Desktop Services and Virtual Desktop Infrastructure. It explains about Remote Desktop Services and the features of Remote Desktop Services. It also describes how to configure Remote Desktop Services for remote computers and how to configure Virtual Desktop Infrastructure.

Lessons

Configuring Remote Desktop Services
Configuring Remote Desktop Gateway
Configuring Virtual Desktop Infrastructure

Lab: Configuring Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2
Publishing Applications Using Remote. App and Remote Desktop Connection Broker
Publishing Applications for External Users Using Remote Desktop Gateway
Configuring Virtual Desktop Pool

After completing this module, students will be able to:

- Configure Remote Desktop Services for remote computers.

- Configure Remote Desktop Gateway.
- Configure Virtual Desktop Infrastructure.

Module 5: Deploying and Configuring Remote Access Services

This module explains how to deploy and configure Remote Access Services. It explains about DirectAccess. It also explains the methods for deploying DirectAccess. It further describes how to configure VPN Reconnect.

Lessons

Overview of DirectAccess
Deploying DirectAccess
Configuring VPN Reconnect

Lab: Deploying and Configuring Remote Access Services
Reviewing Existing Infrastructure Configuration
Completing Configuration of Infrastructure Services for DirectAccess
Completing Configuration of the DirectAccess Server and Verify ISATAP-based connectivity
Implementing VPN Reconnect

After completing this module, students will be able to:

- Describe DirectAccess.
- Deploy DirectAccess.
- Configure VPN Reconnect.

Module 6: Configuring Windows Server 2008 R2 Features for Branch Offices

This module explains how to configure Windows Server 2008 R2 features for branch offices of a business enterprise. It discusses about the features for optimising branch office network access. It also explains how to configure the branch office security features.

Lessons

Features for Optimising Branch Office Network Access
Configuring BranchCache
Configuring Branch Office Security Features

Lab: Configuring Windows Server 2008 R2 Features for Branch Offices
Configuring BranchCache in Distributed Cache Mode
Configuring BranchCache in Hosted Cache Mode
Configuring Read Only DFS Replica

After completing this module, students will be able to:

- Describe the features for optimising branch office network access.
- Configure BranchCache.
- Configure Branch Office security features.

Module 7: Configuring and Managing Windows Server 2008 R2 Web Services

This module explains how to configure and manage IIS and FTP.

Lessons

Configuring and Managing IIS
Configuring FTP

Lab: Configuring and Managing Windows Server 2008 R2 Web Services
Creating and Configuring a Web Site on Windows Server 2008 R2
Managing ASP.NET on Server Core
Configuring FTP Virtual Host Names and Deploying FTP over SSL

After completing this module, students will be able to:

- Configure and manage IIS.
- Configure FTP.

Module 8: Managing Windows Server 2008 R2 with Windows PowerShell 2.0

This module describes how to manage Windows Server 2008 R2 with Windows PowerShell 2.0. It

further explains how to use Windows PowerShell 2.0. It also explains how to manage Active Directory Domain Services and server roles with Windows PowerShell.

Lessons

Using Windows PowerShell

Managing AD DS with Windows PowerShell

Managing Server Roles with Windows PowerShell

Lab: Managing Windows Server 2008 R2 with Windows PowerShell 2.0

Using Windows PowerShell

Working with Active Directory by Using the Active Directory PowerShell Module

Managing IIS by Using Windows PowerShell

Configuring Server Manager Server Roles and Features by Using Windows PowerShell

After completing this module, students will be able to:

- Use Windows PowerShell.
- Manage AD DS with Windows PowerShell.
- Manage server roles with Windows PowerShell.

Target Audience:

This course is intended for IT Professionals experienced on the technologies included in Windows Server 2008 and who have a Windows Server 2008 Technical Specialist certification or equivalent knowledge. Students taking this course are expected to have experience in hands-on deployment and day-to-day management of Windows-based servers for enterprise organisations.

Prerequisites:

Windows Server 2008 Technology Specialist skills

- Familiarity and experience with batch scripting or another scripting language
- Experience with Windows deployment technologies and implementation
- Experience with Windows networking technologies and implementation
- Experience with Active Directory technologies and implementation
- Experience with Windows Server 2008 server virtualisation technologies and implementation
- Experience with Windows Server 2008 Web application server technologies and implementation.