

**Course Outline:** Implementing and Managing Windows Server 2008 Hyper-V

**Learning Method:** Instructor-led Classroom Learning

**Duration:** 3 Days

**Course Overview:**

This three-day instructor-led course teaches students how to implement and manage Windows Server 2008 Hyper-V. It also teaches students how to manage Hyper-V with Solution Center Virtual Machine Manager (VMM) and with PowerShell.

**Audience Profile**

The primary audience for this course is Windows Server 2003/2008 System Administrators who manage and implement Server Virtualization technologies within their network. The secondary audience for this course is Enterprise System Architects who plan enterprise server resources with an emphasis on server consolidation.

**At Course Completion**

After completing this course, students will be able to:

- Install and configure Windows Server 2008 Hyper-V.
- Understand Hyper-V Virtual Networking.
- Understand the types of Virtual Hard Drives and their benefits.
- Create and manage Virtual Machines on the Hyper-V server.
- Understand how to configure the Hyper-V server to ensure high availability.
- Monitor the performance of the Hyper-V server.
- Understand how to use existing virtual machines in the Hyper-V server.
- Understand the issues with migrating existing Virtual Machines to Hyper-V.
- Understand how System Center Virtual Machine Manager (VMM) can be used to manage Hyper-V servers throughout the enterprise.
- Use PowerShell to manage the Hyper-V server and the virtual machines hosted on the Hyper-V server.
- Implement a disaster recovery plan for Virtual Machines on Hyper-V.

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**Outline:**

**Module 1: Introduction to Windows Server 2008 Hyper-V Lessons**

- Introducing Windows Server 2008 Hyper-V
- Hyper-V Requirements
- Installing the Hyper-V Server Role
- Configure Hyper-V to Be Highly Available

**Lab : Install Hyper-V and Perform Initial Configuration**

- Install Hyper-V
- Explore the Hyper-V Management Console

**Module 2: Configure Hyper-V Settings and Virtual Networks Lessons**

- Configuring Hyper-V Options
- Configuring the Virtual Network

**Lab : Configuring Hyper-V and Virtual Networks**

- Configure Hyper-V Server Settings
- Configure Hyper-V Virtual Networks

**Module 3: Hyper-V Remote Administration Lessons**

- Configuring Hyper-V Remote Administration
- Connecting to Hyper-V Remotely

**Lab : Accessing and Managing Hyper-V Remotely**

- Configure the Windows Firewall
- Install the Hyper-V Manager on Windows Vista
- Connect to the Hyper-V Server Remotely

**Module 4: Creation of Virtual Hard Drives and Virtual Machines Lessons**

- Creating Virtual Hard Drives
- Creating Virtual Machines

**Lab : Creating Virtual Hard Drives and Virtual Machines**

- Creating New Virtual Hard Disks
- Creating New Virtual Machines

**Module 5: Virtual Machine Settings, Snapshots, and High Availability . Lessons**

- Managing Virtual Machine Settings
- Using Virtual Machine Snapshots
- Configuring Hyper-V for High Availability
- Monitoring Hyper-V Performance

**Lab : Managing Virtual Machine Settings**

- Configure Virtual Machine Settings
- Monitor Hyper-V Performance

**Module 6: Migration of Virtual Machines to Hyper-V Lessons**

- Migrating Legacy Virtual Machines
- Understanding the Impact of Migrated VMs

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**Lab : Migrating Legacy Virtual Machines to Hyper-V**

- Migrate Existing Virtual Machines to Hyper-V
- Troubleshoot Issues on the Migrated VMs
- After completing this module, students will be able to:
- Understand how to use existing Virtual Machines in the Hyper-V server.
- Understand the issues with migrating existing Virtual Machines to Hyper-V.

**Module 7: Introduction to System Center Virtual Machine Manager . Lessons**

- Introducing System Center Virtual Machine Manager
- Managing Virtual Machines with VMM

**Lab : Using VMM to Manage Hyper-V**

- Configuring VMM
- Managing Hosts
- Creating a New Virtual Machine
- Creating a VM from an Existing Hard Disk
- Converting a VMware Virtual Machine
- VMM Administration

**Module 8: Managing the VMM Virtual Machine Image Library and Checkpoints.**

**Lessons**

- Using the VMM Library
- Managing the Image Library in VMM
- Managing Checkpoints

**Lab : Using the VMM Library**

- Configuring Library Resources
- Working with Templates
- Creating Profiles
- Deploying a Virtual Machine from the Library
- Creating a Self-Service Policy

**Lab : Managing Checkpoints**

- Performing Checkpoint Operations

**Module 9: Windows PowerShell and Disaster Recovery**

**Lessons**

- Using PowerShell to Manage Hyper-V
- Virtual Machine Backup and Recovery

**Lab : Using PowerShell with VMM**

- Introducing the VMM Command Shell Using Basic PowerShell Cmdlets
- Using VMM Cmdlets
- PowerShell Scripts in VMM Wizards
- Creating a Simple VMM Script

**Lab : Creating Backups**

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