

Training: Microsoft

**MS-20409 Server Virtualization with Windows Server Hyper-V and System Center**

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Digital materials	950 EUR	5 days
Traditional	CTAB Tablet	1050 EUR	5 days

**LOCATIONS**

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

**TRAINING GOALS:**

Get hands-on instruction and practice implementing **Microsoft Server Virtualization** with **Windows Server 2012 R2 Hyper-V** and **System Center 2012 R2 Virtual Machine Manager** in this 5-day Microsoft Official Course. You will learn the skills you need to deploy and manage a Microsoft Server Virtualization infrastructure in an enterprise environment. You will learn how to configure, manage, and maintain Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager including networking and storage services. As part of the learning experience, you will perform hands-on exercises in a virtual lab environment.

NOTE: This course is based on Windows Server 2012 R2 Preview and System Center 2012 R2 Preview. This course is designed for experienced IT professionals who support medium to large enterprises and have experience administering Windows Server 2012.

**CONSPECT:**

- Module 1: Evaluating the Environment for Virtualization
  - Overview of Microsoft Virtualization
  - Overview of System Center 2012 R2 Components
  - Evaluating Current Environment for Virtualization
  - Extending Virtualization to the Cloud
- Module 2: Installing and Configuring the Hyper-V Server Role
  - Installing the Hyper-V Server Role
  - Managing Hyper-V
  - Configuring Hyper-V Settings
  - Hyper-V Host Storage and Networking

- Module 3: Creating and Managing Virtual Hard Disks, Virtual Machines, and Checkpoints
  - Creating and Configuring Virtual Hard Disks
  - Creating and Configuring Virtual Machines
  - Installing and Importing Virtual Machines
  - Managing Virtual Machine Checkpoints
  - Monitoring Hyper-V
  - Designing and Managing Virtual Machines
- Module 4: Creating and Configuring Virtual Machine Networks
  - Creating and Using Hyper-V Virtual Switches
  - Advanced Hyper-V Networking Features
  - Configuring and Using Hyper-V Network Virtualization
- Module 5: Virtual Machine Movement and Hyper-V Replica
  - Providing High Availability and Redundancy for Virtualization
  - Implementing Virtual Machine Movement
  - Implementing and Managing Hyper-V Replica
- Module 6: Implementing Failover Clustering with Hyper-V
  - Overview of Failover Clustering
  - Configuring and Using Shared Storage
  - Implementing and Managing Failover Clustering with Hyper-V
- Module 7: Installing and Configuring System Center 2012 R2 Virtual Machine Manager
  - Integrating System Center and Server Virtualization
  - Overview of System Center 2012 Virtual Machine Manager
  - Installing System Center 2012 R2 Virtual Machine Manager
  - Adding Hosts and Managing Host Groups
- Module 8: Managing the Networking and Storage Infrastructure in System Center 2012 R2 Virtual Machine Manager
  - Managing Networking Infrastructure
  - Managing Storage Infrastructure
  - Managing Infrastructure Updates
- Module 9: Creating and Managing Virtual Machines by Using Microsoft System Center 2012 R2 Virtual Machine Manager
  - Virtual Machine Management Tasks in VMM
  - Creating, Cloning, and Converting Virtual Machines
  - Overview of Virtual Machine Updating
- Module 10: Configuring and Managing the System Center 2012 R2 Virtual Machine
  - Overview of the Virtual Machine Manager Library
  - Working With Profiles and Templates

- Module 11: Managing Clouds in System Center 2012 R2 Virtual Machine Manager
  - Introduction to Clouds
  - Creating and Managing a Cloud
  - Working With User Roles in Virtual Machine Manager
- Module 12: Managing Services in System Center 2012 R2 Virtual Machine Manager and App Controller
  - Understanding Services in System Center 2012 R2 Virtual Machine Manager
  - Creating and Managing Services in VMM
  - Using System Center 2012 R2 App Controller
- Module 13: Protecting and Monitoring Virtualization Infrastructure
  - Overview of Backup and Restore Options for Virtual Machines
  - Protecting Virtualization Infrastructure by Using Data Protection Manager
  - Using System Center Operations Manager for Monitoring and Reporting
  - Integrating Virtual Machine Manager with Operations Manager

## REQUIREMENTS:

Before attending this course, students must have:

- An understanding of TCP/IP and networking concepts
- An understanding of different storage technologies and concepts
- The ability to work in a team/virtual team
- An understanding of [Windows PowerShell](#)

## Difficulty level



## CERTIFICATE:

The participants will obtain Microsoft certificates.

## TRAINER:

Microsoft Certified Trainer.