



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Vous pouvez nous joindre ici**

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<b>CODE:</b>	<b>DURÉE:</b>	<b>PRIX H.T.:</b>
VMW_VSO67	16 Hours (2 Jours)	€1,640.00

## Description

This two-day training course is for operators and administrators who create and manage virtual machines. This course provides you with an understanding of VMware virtual machine features in VMware vSphere® 6.7. By combining lecture and hands-on labs, you gain the skills required to work effectively with VMware virtual machines.

## Objectifs

By the end of the course, you should be able to meet the following objectives:

- Describe virtualization, virtual machines, and vSphere components
- Describe the concepts of server, network, storage, and desktop virtualization
- Deploy, configure, clone, and manage virtual machines
- Use VMware vCenter Server® to monitor virtual machine resource usage
- Use VMware vSphere® vMotion® and VMware vSphere® Storage vMotion® to migrate virtual machines
- Use VMware vSphere® Distributed Resource Scheduler™ and VMware vSphere® High Availability to optimize the performance of your vSphere virtual environment

## Audience

Technical professionals with system administration skills and operators responsible for managing virtual machines using VMware ESXi™ and vCenter Server.

## Prérequis

This course has the following prerequisites:

- System administration experience on Microsoft, Linux, and Solaris
- Understanding of basic network and storage concepts

## Programme

- 1 Course Introduction**
  - Introductions and course logistics
  - Course objectives
- 2 Introduction to vSphere and the Software-Defined Data Center**
  - Describe how vSphere fits into the software-defined data center and the cloud infrastructure
  - Explain how vSphere interacts with CPUs, memory, networks, and storage
  - Use vSphere Client to access and manage your vCenter Server system and ESXi host
  - Compare virtual machine hardware version 14 to other versions
  - Identify the virtual network adapters, and describe the enhanced VMXNET3
  - Compare the types of virtual disk provisioning
- 3 Creating Virtual Machines**
  - Create, provision, and remove a virtual machine
  - Explain the importance of VMware Tools™
  - Describe how to import a virtual appliance OVF template
- 4 vCenter Server**
  - Describe the vCenter Server architecture
  - Discuss how ESXi hosts communicate with vCenter Server
  - Use vSphere Client to manage the vCenter Server inventory
  - Add data center and organizational objects to vCenter Server
  - Add hosts to vCenter Server
  - Discuss how to create custom inventory tags for inventory objects
  - Monitor VMware vCenter® Server Appliance™
  - Monitor vCenter Server Appliance for service and disk space usage
  - Use vSphere alarms for resource exhaustion and service failures

## 5 Configuring and Managing Virtual Networks

- Describe the virtual switch connection types
- Configure and view standard switch configurations, such as virtual machine port group, VMkernel port, VLAN, and security features
- List the features comparison of standard and distributed switches

## 7 Virtual Machine Management

- Use templates and cloning to deploy new virtual machines
- Enable guest operating system customization by vCenter Server
- Upgrade a virtual machine's hardware
- Perform an instant clone of a VM
- Describe virtual machine settings and options
- Add a hot-pluggable device
- Dynamically increase the size of a virtual disk
- Add a raw device mapping (RDM) to a virtual machine
- Perform a vSphere vMotion migration

## 6 Virtual Storage

- Describe vSphere storage technologies and datastores

## 8 Resource Management and Monitoring

- Use the performance-tuning methodology and resource monitoring tools
- Use performance charts to view and improve performance
- Monitor the key factors that can affect the virtual machine's performance: CPU, memory, disk, and network bandwidth use
- Create alarms with condition-based triggers
- Create alarms with event-based triggers
- View and acknowledge triggered alarms

## 9 vSphere HA

- Describe the options that you can configure to make your vSphere environment highly available
- Discuss the response of vSphere HA when an ESXi host, a virtual machine, or an application fails

## 10 vSphere DRS

- Describe the functions of a vSphere DRS cluster
- Create a vSphere DRS cluster
- View information about a vSphere DRS cluster
- Remove a host from a vSphere DRS cluster

## Dates de session

Sur demande. [Merci de nous contacter](#)

## Informations

### Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.