



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VM-VS-SFO-V6.7	16 Hours (2 days)	\$1,700.00

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.

Product Alignment

- ESXi 6.7
- vCenter Server 6.7

Objectives

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.

Prerequisites

This course has the following prerequisites:

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

Program

- 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
- Perform a vSphere Storage 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

Session Dates

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)