

## VMware vSphere Skills for Operators

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### COURSE DETAILS

Course Code:	VM-VSO
Delivery Type:	Instructor-Led
Duration:	2 days

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### PREREQUISITES

System administration experience on Microsoft Windows or Linux operating systems

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### COURSE CONTENT

VMware vSphere: Skills for Operators is a two-day technical classroom training course designed to help operators and administrators create and manage virtual machines. This two-day lecture and lab course will help students gain the skills required to work effectively with VMware® virtual machines. This course is based on VMware® ESXi™ 5.5 and VMware® vCenter Server™ 5.5.

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### COURSE OBJECTIVES

The objective of this course is to provide students a strong understanding of VMware virtual machine features in vSphere 5.5. By the end of this course, you should be able to meet the following objectives:

- Describe virtualization, virtual machines, and vSphere components
  - Describe the concepts of server, network, and storage virtualization
  - Deploy, configure, and manage virtual machines
  - Use vCenter Server to monitor virtual machine resource usage
  - Use VMware vSphere® vMotion® and VMware vSphere® Storage vMotion® to migrate virtual machines
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### COURSE OUTLINE

#### 1 Course Introduction

- Introductions and course logistics
- Course goals and objectives
- Online vSphere resources
- Location of online vSphere documentation

#### 2 Introduction to VMware Virtualization

- Compare the components and concepts of virtual and traditional architecture
- Describe a virtual machine
- Identify the benefits of using a virtual machine
- Describe VMware virtualization concepts
- Describe the components and features of vSphere
- Describe inventory objects managed by vSphere
- Describe the features of vCenter Server

#### 3 VMware vSphere Web Client

- Access and use the VMware vSphere® Web Client
- Describe the navigation panes in the vSphere Web Client

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### 4 Creating and Managing Virtual Machines

- Describe virtual machine components
- Create a virtual machine
- Install a guest operating system and VMware® Tools™
- Clone a virtual machine
- Create an OVF template
- Customize a virtual machine
- Register and unregister a virtual machine in vCenter Server
- Perform snapshot operations

### 5 Virtual Machine Resource Monitoring

- Introduce virtual CPU and memory concepts
- Describe methods for optimizing CPU, memory, and disk usage
- Use vCenter Server performance graphs and alarms to monitor virtual machine resource usage
- Describe and monitor tasks
- Describe, monitor, and manage events
- Describe, monitor, manage, and acknowledge alarms

### 6 Using VMware vSphere vApps

- Describe VMware vSphere® vApps™
- Create, edit, and manage a vApp
- Clone a vApp
- Manage the power status of a vApp

### 7 Migrating Virtual Machines

- Describe and use cold migration to migrate a virtual machine
- Verify host and virtual machine requirements for vSphere vMotion
- Migrate a virtual machine with vSphere vMotion
- Migrate virtual machine storage with vSphere Storage vMotion
- Describe CPU compatibility with Enhanced vMotion Compatibility
- Describe VMware vSphere® Distributed Resource Scheduler™

Summarize VMware vSphere® High Availability

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## WHO SHOULD ATTEND

- Operators responsible for ESXi and vCenter Server management