

---

## vSphere 4: Skills for Operators

**Duration: 2 Days**    **Course Code: VSSO**

---

### Overview:

This hands-on training course explores configuration and management of VMware vSphere™ virtual machines. Upon completion of this course, you should have the skills necessary to work effectively with VMware® virtual machines. The course is based on VMware ESX™ 4.0 and VMware vCenter™ Server 4.0.

---

### Target Audience:

System administrators and operators responsible for ESXi, ESX, or vCenter Server

---

### Objectives:

- Create, deploy, and manage virtual machines
  - Use vCenter Server to monitor virtual machine resource usage
  - Use VMware vCenter Update Manager to apply patches to virtual machines
  - Use VMware vMotion™ and Storage vMotion to migrate virtual machines
  - Troubleshoot problems with virtual machine configuration
  - Lab exercises are interspersed throughout the course.
- 

### Prerequisites:

System administration experience on Microsoft Windows or Linux operating systems

---

## Content:

### Module 1: Course Introduction

### Module 2: Introduction to VMware Virtualization

-

- Discussion of virtualization and vSphere components

### Module 3: Virtual Machine Creation and Management

- Create a virtual machine
- Install a guest operating system in a virtual machine
- Install VMware Tools into a Windows guest operating system
- Enable time synchronization between a virtual machine and the host
- Create a template
- Create a template and deploy a virtual machine from it
- Clone a virtual machine that is powered on
- Take snapshots of a virtual machine and revert to a snapshot
- Modify a virtual machine's disk, memory, and name
- Manipulate virtual machines in the vCenter Server inventory
- Delete a virtual machine from disk
- Add a raw LUN to an existing virtual machine

### Module 4: Virtual Machine Resource Monitoring

- Use vCenter Server to monitor CPU utilization

### Module 5: Using Update Manager to Update Virtual Machines

- List all patches installed on both your virtual machine and template
- Create a patch baseline
- Scan for updates
- Remediate the virtual machine and template

### Module 6: Migrating Virtual Machines

- Verify that your virtual machines' settings meet vMotion requirements
- Verify that your ESX host meets vMotion requirements
- Perform a vMotion migration a virtual machine
- Perform a Storage vMotion migration a virtual machine

### Module 7: Troubleshooting Virtual Machines

- Identify and correct common configuration issues with virtual machines

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 01924 377489

[info@globalknowledge.co.uk](mailto:info@globalknowledge.co.uk)

[www.globalknowledge.co.uk](http://www.globalknowledge.co.uk)

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK