

Course Outline: SSV023**Course Title: VMware vSphere: Install, Configure, Manage****Duration: 4 Days****Overview**

This hands-on training course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESXi/ESX™ and VMware vCenter™ Server. Upon completion of this course, you can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0. Students who complete this course may enroll in any of several more-advanced vSphere courses. See www.vmware.com/education for options.

Course Objectives

At the end of the course, you should gain an understanding of the functionality in VMware vSphere 4 and be able to:

- Install and configure ESX
- Install and configure vCenter Server
- Configure and manage ESX networking and storage using vCenter Server
- Deploy and manage virtual machines
- Manage user access to the VMware infrastructure
- Increase scalability using vCenter Server
- Monitor resource usage using vCenter Server
- Apply patches using VMware vCenter Update Manager
- Manage higher availability and data protection using vCenter Server

Best practices and lab exercises are interspersed throughout the course.

Target Audience

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

Prerequisites

System administration experience on Microsoft Windows or Linux operating systems

Course Outline

Module 1: Course Introduction

Module 2: Introduction to VMware Virtualization

- Discussion of virtualization and vSphere components

Module 3: Configuring ESXi/ESX

- Configuration of ESXi and ESX

Module 4: Installing and Using VMware vCenter Server

- Install and configure vCenter Server, and use the VMware vSphere Client to manage vCenter Server inventory hierarchies

Module 5: Networking

- Configuration of vNetwork standard and distributed switches, network connections, and port groups

Module 6: Storage

- Storage management technologies

Module 7: Virtual Machines

- Deploy virtual machines using templates, VMware vCenter Converter, Guided Consolidation
- Modifying, managing, and migrating virtual machines

Module 8: Access Control

- Controlling user access through roles and permissions

Module 9: Resource Monitoring

- Workload assessment, monitoring using vCenter Server

Module 10: Scalability

- VMware vMotion™ migrations
- Setup of resource pools and VMware Distributed Resource Scheduler cluster

Module 11: High Availability and Data Protection

- Setup of a VMware High Availability cluster
- Backup and recovery of virtual machines using VMware Data Recovery