Course Outline
CSP-7248

VMware vSphere: Install, Configure, Manage [V5.1]

Course 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 5.1, ESX 5.1, and vCenter Server 5.1. Students who complete this course may enroll in any of several more-advanced vSphere courses. See www.vmware.com/education for options.

Objectives:

- 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.

Course Summary:
Formats: Live Online and Online
Length: 100 hours
16 "live online" seated classes @ 3 hours per class or 48 hours
52 hours of online course work

Grade Scale:
(S) Satisfactory or (U) Unsatisfactory

Attendance Policy:
Students can miss only 2 "live online" classes. Online course work is also required and necessary to complete the necessary virtual lab work.

Intended 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

Tuition:
$1500

Books:
VMware vSphere 5.1 Install Configure Manage Course Manual (e-book also available).
Textbook = $41 plus tax and shipping
E-Book = $24 plus tax
Course Outline:

Days 1 - 3

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

Days 4-8

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

Day 9

Module 7: Virtual Machines

• Deploy virtual machines using templates, VMware vCenter Converter, Guided Consolidation

• Modifying, managing, and migrating virtual machines

Days 10-12
Module 8: Access Control
- Controlling user access through roles and permissions

Module 9: Resource Monitoring
- Workload assessment, monitoring using vCenter Server

Day 13

Module 10: Scalability
- VMware VMotion™ migrations
- Setup of resource pools and VMware Distributed Resource Scheduler cluster

Days 14-15

Module 11: High Availability and Data Protection
- Setup of a VMware High Availability cluster
- Backup and recovery of virtual machines using VMware Data Recovery

Module 12: Configuration Management
- Patching using vCenter Update Manager

Module 13: Installing ESX
- Installation of ESX

Day 16 – Open Lab Day/Complete and review lab work