



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VM-VS-ICM-51-EL	240 Hours	\$3,595.00

Description

This hands-on training course explores installation, configuration, and management of VMware vSphere®, which consists of VMware vSphere® ESXi®, and VMware® vCenter Server®,. This course is based on prerelease versions of ESXi 5.1 and vCenter Server 5.1.

Completion of this course satisfies the prerequisite for taking the VMware Certified Professional 5 “Data Center Virtualization” exam.

Objectives

- Install and configure ESXi
- Install and configure vCenter Server components
- Use vCenter Server to configure and manage ESXi networking and storage
- Deploy, manage, and migrate virtual machines
- Manage user access to the VMware infrastructure
- Use vCenter Server to monitor resource usage
- Use vCenter Server to increase scalability
- Use VMware vSphere® Update Manager™ to apply ESXi patches
- Use vCenter Server to manage higher availability and data protection

Audience

- System administrators
- Systems engineers
- Operators responsible for ESXi and vCenter Server

Prerequisites

System administration experience on Microsoft Windows or Linux operating systems

Programme

- 1 Course Introduction
 - Introductions and course logistics
 - Course objectives
- 2 Introduction to VMware Virtualization
 - Introduce virtualization, virtual machines, and vSphere components
 - Explain the concepts of server, network, and storage virtualization
 - Describe where vSphere fits into the cloud architecture
 - Install and use vSphere user interfaces
- 3 Creating Virtual Machines
 - Introduce virtual machines, virtual machine hardware, and virtual machine files
 - Deploy a single virtual machine
- 4 VMware vCenter Server
 - Introduce the vCenter Server architecture
 - Introduce VMware® vCenter™ Server Appliance™
 - Configure and manage vCenter Server Appliance

- Manage vCenter Server inventory objects and licenses
- 5 Configuring and Managing Virtual Networks
- Describe, create, and manage a standard virtual switch
 - Describe and modify standard virtual switch properties
 - Configure virtual switch load-balancing algorithms
- 6 Configuring and Managing Virtual Storage
- Introduce storage protocols and device names
 - Configure ESXi with iSCSI, NFS, and Fibre Channel storage
 - Create and manage vSphere datastores
 - Deploy and manage VMware vSphere® Storage Appliance
- 7 Virtual Machine Management
- Use templates and cloning to deploy virtual machines
 - Modify and manage virtual machines
 - Create and manage virtual machine snapshots
 - Perform VMware vSphere® vMotion® and VMware vSphere® Storage vMotion® migrations
 - Create a VMware vSphere® vApp™
- 8 Data Protection
- Discuss a strategy for backing up ESXi hosts and vCenter Server
 - Discuss solutions for backing up virtual machines efficiently
- 9 Access and Authentication Control
- Control user access through roles and permissions
 - Configure and manage the ESXi firewall
 - Configure ESXi lockdown mode
 - Integrate ESXi with Active Directory
 - Explain VMware® vShield Endpoint™ integration in VSphere
- 10 Resource Management and Monitoring
- Introduce virtual CPU and memory concepts
 - Describe methods for optimizing CPU and memory usage
 - Configure and manage resource pools
 - Monitor resource usage using vCenter Server performance graphs and alarms
- 11 High Availability and Fault Tolerance
- Introduce the new VMware vSphere® High Availability architecture
 - Configure and manage a vSphere HA cluster
 - Introduce VMware vSphere® Fault Tolerance
 - Describe VMware vSphere® Replication
- 12 Scalability
- Configure and manage a VMware vSphere® Distributed Resource Scheduler™ (DRS) cluster
 - Configure Enhanced vMotion Compatibility
 - Use vSphere HA and DRS together
- 13 Patch Management
- Use Update Manager to manage ESXi patching
 - Install Update Manager and the Update Manager plug-in
 - Create patch baselines
 - Scan and remediate hosts
- 14 Installing VMware Components
- Introduce ESXi installation
 - Describe boot-from-SAN requirements
 - Introduce vCenter Server deployment options
 - Describe vCenter Server hardware, software, and database requirements
 - Install vCenter Server (Windows-based)

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
17 Apr 2023			English	Self Paced Training		\$3,495.00

Additional Information

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