Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Data Center Virtualization: Core Technical Skills

CODE:	LENGTH:	PRICE:
EDU-VMW-DCVCTS	32 Hours (4 days)	$3,400.00

Description

This four-day, hands-on training course is an introduction to VMware vSphere®. In this course, you acquire the skills needed to perform Day 2 operational tasks that are typically assigned to the roles of operator or junior administrator in a vSphere environment. Attending this course is recommended to achieve the following certification:
VMware Certified Technical Associate - Data Center Virtualization (VCTA-DCV)

Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe virtualization and virtual machines
- Describe vSphere components and the software-defined data center (SDDC)
- Explain the concepts of server, network, and storage virtualization
- Monitor network and datastore configurations in VMware vSphere® Client™
- Deploy, configure, and clone virtual machines
- Migrate, monitor, and manage virtual machines
- Monitor tasks and events in VMware vSphere® Client™
- Recognize how vSphere DRS and VMware vSphere® High Availability improve performance and availability of a vSphere cluster

Audience

he primary audience for this course is as follows:

- Technical professionals with basic system administration skills and operators responsible for managing virtual machines using VMware ESXi™ and VMware vCenter Server®

Prerequisites

The knowledge and skills that the learner should have before attending this course are as follows:

- Working knowledge of operating systems
- Understanding of basic network, storage, and computer hardware concepts

Program

Module 1: Course Introduction
• Introductions and course logistics
• Course objectives
Module 2: Virtualization and vSphere Concepts
• Describe how virtual machines (VMs) work
• Recognize the purpose of a hypervisor
• Describe how VMs share resources in a virtualized environment
• Recognize the components of an SDDC
• Describe the relationship between vSphere, the SDDC, and cloud computing

• Recognize the functions of the components in a vSphere environment
• Access and view vSphere graphical user interfaces
• Identify VMware solutions that integrate with vSphere in the SDDC

Module 3: Navigating the vSphere Client

• View and organize the inventory objects managed by vCenter Server
• Add and assign vSphere licenses
• Change the log level of vCenter Server
• Edit the startup policy of ESXi services
• Describe how vCenter Server roles and permissions work
• Add permissions to virtual machines

Module 4: Lifecycle of Virtual Machines

• Add and remove VM virtual hardware components
• Identify the purpose of different VM files
• Configure VM settings
• Create and delete virtual machines
• Recognize the benefits of installing VMware Tools™
• Install VMware Tools into a guest operating system
• Upgrade VMware Tools and VM hardware compatibility

Module 5: vSphere Networking

• Describe virtual networking
• Recognize ways that virtual switches connect VMs and ESXi hosts to the network
• View components and properties of a vSphere standard switch configuration
• View a vSphere distributed switch configuration in vSphere Client
• Recognize when and how to use the settings for the security networking policy
• Recognize when and how to use the settings for the traffic shaping networking policy
• Describe how the NIC teaming and failover policy helps maintain network connectivity
• Perform basic checks to diagnose VM connectivity issues

Module 6: vSphere Storage

• Describe the function of a datastore
• Recognize types of vSphere datastores
• View datastore information in vSphere Client
• Monitor datastore usage in vSphere Client

Module 7: Virtual Machine Management

• Recognize the benefits of using VM templates
• Create and update a VM template
• Deploy a VM from an existing template
• Clone a virtual machine
• Recognize how to use guest OS customization specifications
• Deploy VMs from a content library
• Deploy a virtual appliance from an OVF template
• Perform a hot and cold migrations of VMs
• Identify requirements for using VMware vSphere® Storage vMotion®
• Perform a vSphere Storage vMotion migration
• Identify use cases for VM snapshots
• Create and manage snapshots of a virtual machine

Module 8: Resource Monitoring

• Recognize the purpose of each type of VM resource control
• Configure the resource allocation settings of a VM
• Observe the behavior of virtual machines with different share values
• Manage and acknowledge vSphere alarms
• Use performance charts to monitor VM CPU and memory usage
• Monitor tasks and events in vSphere Client

Module 9: vSphere Clusters

• View information about the services that a vSphere cluster offers
• Recognize how vSphere HA responds to different types of failures
• Monitor vSphere HA during a host failure
• Describe how vSphere DRS works
• Interpret DRS scores given to VMs
• Recognize how to apply the appropriate vSphere DRS automation and migration threshold levels
• Describe how vSphere Fault Tolerance works
• Recognize how Enhanced vMotion Compatibility works

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
07 Jun 2026	Virtual Classroom	CST	English	Instructor Led Online		$3,400.00
09 Aug 2026	Virtual Classroom	CST	English	Instructor Led Online		$3,400.00
04 Oct 2026	Virtual Classroom	CST	English	Instructor Led Online		$3,400.00
29 Nov 2026	Virtual Classroom	CST	English	Instructor Led Online		$3,400.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.