Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vSphere: Operate, Scale and Secure [V8.0]

CODE:	LENGTH:	PRICE:
EDU-VMW-VSOSS80	40 Hours (5 days)	$4,625.00

Description

This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you configure and optimize the VMware vSphere 8 features that build a foundation for a truly scalable infrastructure. You also discuss when and where these features have the greatest effect. Attend this course to deepen your understanding of vSphere and learn how its advanced features and controls can benefit your organization.

Objectives

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

- Configure and manage a VMware Tools Repository
- Configure vSphere Replication and recover replicated VMs
- Manage VM resource usage with resource pools
- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- Configure vCenter High Availability
- Use host profiles to manage VMware ESXi host compliance
- Use the vSphere Client to manage certificates
- Monitor the vCenter, ESXi, and VMs performance in the vSpher e client
- Secure vCenter, ESXi, and VMs in your vSphere environment
- Use VMware vSphere Trust Authority to secure the infrastructure for encrypted VMs
- Use Identity Federation to configure the vCenter to use external identity sources

Audience

The primary audience for this course is as follows:

- Experienced system administrators
- System engineers
- System integrators

Prerequisites

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

- Attend VMware vSphere: Install, Configure, Manage [V8]
- Equivalent knowledge and administration experience with ESXi and vCenter
- Experience with working at the command line is highly recommended.

Program

Module 1: Course Introduction
• Introductions and course logistics
• Course objectives
Module 2: Virtual Machine Operations

• Recognize the role of a VMware Tools Repository
• Configure a VMware Tools Repository
• Recognize the backup and restore solution for VMs
• Identify the components in the vSphere Replication architecture
• Deploy and configure vSphere Replication
• Recover replicated VMs

Module 3: vSphere Cluster Operations

• Create and manage resource pools in a cluster
• Describe how scalable shares work
• Describe the function of the vCLS
• Recognize operations that might disrupt the healthy functioning of vCLS VMs

Module 4: Network Operations

• Configure and manage vSphere distributed switches
• Describe how VMware vSphere Network I/O Control enhances performance
• Explain distributed switch features such as port mirroring and NetFlow
• Define vSphere Distributed Services Engine
• Describe the use cases and benefits of vSphere Distributed Services Engine

Module 5: Storage Operations

• Discuss vSphere support for NVMe and iSER technologies
• Describe the architecture and requirements of vSAN configuration
• Describe storage policy-based management
• Recognize components in the vSphere Virtual Volumes architecture
• Configure Storage I/O Control

Module 6: vCenter and ESXi Operations

• Create a vCenter backup schedule
• Recognize the importance of vCenter High Availability
• Explain how vCenter High Availability works
• Use host profiles to manage ESXi configuration compliance
• Use the vSphere client to manage vSphere certificates

Module 7: vSphere Monitoring

• Monitor the key factors that can affect a virtual machine's performance
• Describe the factors that influence vCenter performance
• Use vCenter tools to monitor resource use
• Create custom alarms in vCenter
• Describe the benefits and capabilities of VMware Skyline
• Recognize uses for Skyline Advisor Pro

Module 8: vSphere Security and Access Control

• Recognize strategies for securing vSphere components, such as vCenter, ESXi hosts, and virtual machines
• Describe vSphere support for security standards and protocols
• Describe identity federation and recognize its use cases
• Configure identity federation to allow vCenter to use an external identity provider

Module 9: vSphere Trusted Environments and VM Encryption

• Configure ESXi Host Access and Authentication
• Describe virtual machine security features
• Describe the components of a VM encryption architecture
• Create, manage, and migrate encrypted VMs
• List VM encryption events and alarms
• Describe the benefits and use cases of vSphere Trust Authority
• Configure vSphere Trust Authority

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
12 Apr 2026	Virtual Classroom	CST	English	Instructor Led Online		$4,625.00
10 May 2026	Virtual Classroom	CST	English	Instructor Led Online	Yes	$4,625.00
07 Jun 2026	Virtual Classroom	CST	English	Instructor Led Online	Yes	$4,625.00
05 Jul 2026	Virtual Classroom	CST	English	Instructor Led Online		$4,625.00
02 Aug 2026	Virtual Classroom	CST	English	Instructor Led Online		$4,625.00
13 Sep 2026	Virtual Classroom	CST	English	Instructor Led Online		$4,625.00

Additional Information

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