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Course Name

VMware Vsphere: Install, Configure, Manage (V8.0)

Sector Name

Information Technology

Document Type

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VMware Vsphere: Install, Configure, Manage (V8.0)

Course Introduction

This training course is designed to provide participants with the essential knowledge on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8.

This course prepares you to administer a vSphere infrastructure for an organization of any size. This course is the foundation for most VMware technologies in the software-defined data center.

Product Alignment:

- ✓ VMware ESXi 8.0
- ✓ VMware vCenter 8.0

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Target Audience

This training course is designed for System engineers and administrators involved in the administration of a VMware vSphere solution.

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Learning Objectives

- ✓ Gain a comprehensive understanding of the process involved in installing, configuring, and managing VMware V8.0.
- ✓ Install and configure ESXi hosts
- ✓ Deploy and configure vCenter
- ✓ Utilize the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- ✓ Develop virtual networks using vSphere standard switches and distributed switches
- ✓ Create and configure datastores using storage technologies supported by vSphere
- ✓ Use the vSphere Client™ to create virtual machines, templates, clones, and snapshots
- ✓ Create content libraries for managing templates and deploying virtual machines
- ✓ Manage virtual machine resource allocation
- ✓ Migrate virtual machines with VMware vSphere, vMotion, and Storage vMotion.
- ✓ Create and configure a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler
- ✓ Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

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Course Outline

✓ Day 01

vSphere and Virtualization Overview

- ✓ Explain basic virtualization concepts
- ✓ Describe how vSphere fits in the software-defined data center and the cloud infrastructure
- ✓ Recognize the user interfaces for accessing vSphere
- ✓ Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs

Installing and Configuring ESXi

- ✓ Install an ESXi host
- ✓ Recognize ESXi user account best practices
- ✓ Configure the ESXi host settings using the DCUI and VMware Host Client

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Course Outline

✓ Day 02

Deploying and Configuring vCenter

- ✓ Recognize ESXi hosts communication with vCenter
- ✓ Deploy vCenter Server Appliance
- ✓ Configure vCenter settings
- ✓ Use the vSphere Client to add and manage license keys
- ✓ Create and organize vCenter inventory objects
- ✓ Recognize the rules for applying vCenter permissions
- ✓ View vCenter logs and events

Configuring vSphere Networking

- ✓ Configure and view standard switch configurations
- ✓ Configure and view distributed switch configurations
- ✓ Recognize the difference between standard switches and distributed switches
- ✓ Explain how to set networking policies on standard and distributed switches

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Course Outline

✓ Day 03

Configuring vSphere Storage

- ✓ Recognize vSphere storage technologies
- ✓ Identify types of vSphere datastores
- ✓ Describe Fibre Channel components and addressing
- ✓ Describe iSCSI components and addressing
- ✓ Configure iSCSI storage on ESXi
- ✓ Create and manage VMFS datastores
- ✓ Configure and manage NFS datastores

Deploying Virtual Machines

- ✓ Create and provision VMs
- ✓ Explain the importance of VMware Tools
- ✓ Identify the files that make up a VM
- ✓ Recognize the components of a VM
- ✓ Navigate the vSphere Client and examine VM settings and options
- ✓ Modify VMs by dynamically increasing resources
- ✓ Create VM templates and deploy VMs from them
- ✓ Clone VMs
- ✓ Create customization specifications for guest operating systems
- ✓ Create local, published, and subscribed content libraries

- ✓ Deploy VMs from content libraries
- ✓ Manage multiple versions of VM templates in content libraries

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Course Outline

✓ Day 04

Managing Virtual Machines

- ✓ Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- ✓ Migrate VMs using vSphere vMotion
- ✓ Describe the role of Enhanced vMotion Compatibility in migrations
- ✓ Migrate VMs using vSphere Storage vMotion
- ✓ Take a snapshot of a VM
- ✓ Manage, consolidate, and delete snapshots
- ✓ Describe CPU and memory concepts in relation to a virtualized environment
- ✓ Describe how VMs compete for resources
- ✓ Define CPU and memory shares, reservations, and limits

Deploying and Configuring vSphere Clusters

- ✓ Create a vSphere cluster enabled for vSphere DRS and vSphere HA
- ✓ View information about a vSphere cluster
- ✓ Explain how vSphere DRS determines VM placement on hosts in the cluster
- ✓ Recognize use cases for vSphere DRS settings
- ✓ Monitor a vSphere DRS cluster
- ✓ Describe how vSphere HA responds to various types of failures
- ✓ Identify options for configuring network redundancy in a vSphere HA cluster
- ✓ Recognize vSphere HA design considerations

- ✓ Recognize the use cases for various vSphere HA settings
- ✓ Configure a vSphere HA cluster
- ✓ Recognize when to use vSphere Fault Tolerance

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Course Outline

✓ Day 05

Managing the vSphere Lifecycle

- ✓ Enable vSphere Lifecycle Manager in a vSphere cluster
- ✓ Describe features of the vCenter Update Planner
- ✓ Run vCenter upgrade prechecks and interoperability reports
- ✓ Recognize features of vSphere Lifecycle Manager
- ✓ Distinguish between managing hosts using baselines and managing hosts using images
- ✓ Describe how to update hosts using baselines
- ✓ Describe ESXi images
- ✓ Validate ESXi host compliance against a cluster image and update ESXi hosts
- ✓ Update ESXi hosts using vSphere Lifecycle Manager
- ✓ Describe vSphere Lifecycle Manager's automatic recommendations
- ✓ Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 11, 2027	Jan. 15, 2027	5 days	5950.00 \$	switzerland , Geneva
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh

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