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Course Name

VMware Vsphere - Install, Configure, Manage (V7.0)

Sector Name

Information Technology

Document Type

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VMware Vsphere - Install, Configure, Manage (V7.0)

Course Introduction

This VMware vSphere foundation course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7, which includes VMware ESXi™ 7 and VMware vCenter Server 7. This VMware course prepares you to administer a vSphere infrastructure for an organization of any size.

This course is the foundation for most of the other VMware technologies in the software-defined data center and aligns to the following products: ESXi 7, vCenter Server 7.

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Target Audience

- ✓ Cloud Computing Engineer
- ✓ Computer Network Specialist
- ✓ Computer Support Specialist
- ✓ Database Administrator
- ✓ Information Technology Analyst
- ✓ Information Technology Leadership
- ✓ Information Security Specialist
- ✓ Software/Application Developer
- ✓ Web Developer
- ✓ Technology sales consultant

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Learning Objectives

- ✓ Gain a comprehensive understanding of the vSphere components and their function in the infrastructure
- ✓ Utilize VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- ✓ Install and configure VMware ESXi™ hosts
- ✓ Deploy and configure VMware vCenter® Server Appliance™
- ✓ Manage, monitor, back up, and protect the vCenter Server Appliance
- ✓ Create virtual networks with vSphere standard switches
- ✓ Configure virtual storage using iSCSI and NFS storage
- ✓ Create and manage VMware vSphere® VMFS datastores
- ✓ Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- ✓ Create a content library and deploy virtual machines from templates in the library
- ✓ Manage virtual machine resource use and migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- ✓ Create and manage a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- ✓ Discuss solutions for managing the vSphere life cycle

✓ Utilize VMware vSphere® Update Manager™ to apply patches and perform upgrades to ESXi hosts and virtual machines

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Course Outline

✓ Day 01

Introduction To Vsphere And The Software-defined Data Center

- ✓ Explain basic virtualization concepts
- ✓ Describe how vSphere fits into the software-defined data center and the cloud infrastructure
- ✓ Explain how vSphere interacts with CPUs, memory, networks, and storage
- ✓ Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts
- ✓ Use VMware Host Client™ to access and manage the ESXi host

Virtual Machines

- ✓ Create and remove a virtual machine
- ✓ Provision a virtual machine with virtual devices
- ✓ Identify the files that make up a virtual machine
- ✓ Explain the importance of VMware Tools™

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Course Outline

✓ Day 02

Vcenter Server

- ✓ Describe the vCenter Server architecture
- ✓ Discuss how ESXi hosts communicate with vCenter Server
- ✓ Deploy and configure vCenter Server Appliance
- ✓ Use the vSphere Client to manage the vCenter Server inventory
- ✓ Add data center, organizational objects, and hosts to vCenter Server
- ✓ Use roles and permissions to enable users to access objects in the vCenter Server inventory
- ✓ Back up the vCenter Server Appliance
- ✓ Monitor vCenter Server tasks, events, and appliance health
- ✓ Use vCenter Server High Availability to protect a vCenter Server Appliance

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Course Outline

✓ Day 03

Configuring And Managing Virtual Networks

- ✓ Create and manage standard switches
- ✓ Describe the virtual switch connection types
- ✓ Configure virtual switch security, traffic-shaping, and load-balancing policies
- ✓ Compare vSphere distributed switches and standard switches

Configuring And Managing Virtual Storage

- ✓ Identify storage protocols and storage device types
- ✓ Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
- ✓ Create and manage VMFS and NFS datastores
- ✓ Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
- ✓ Deploy virtual machines on a VMware vSAN™ datastore

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Course Outline

✓ Day 04

Virtual Machine Management

- ✓ Use templates and cloning to deploy new virtual machines
- ✓ Modify and manage virtual machines
- ✓ Create a content library and deploy virtual machines from templates in the library
- ✓ Dynamically increase the size of a virtual disk
- ✓ Use customization specification files to customize a new virtual machine
- ✓ Perform vSphere vMotion and vSphere Storage vMotion migrations
- ✓ Create and manage virtual machine snapshots
- ✓ Examine the features and functions of VMware vSphere® Replication™

Resource Management And Monitoring

- ✓ Discuss CPU and memory concepts in a virtualized environment
- ✓ Describe what overcommitment of a resource means
- ✓ Describe methods for optimizing CPU and memory usage
- ✓ Use various tools to monitor resource use
- ✓ Create and use alarms to report certain conditions or events

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Course Outline

✓ Day 05

Vsphere Cluster

- ✓ Describe options for making a vSphere environment highly available
- ✓ Explain the vSphere HA architecture
- ✓ Configure and manage a vSphere HA cluster
- ✓ Examine the features and functions of VMware vSphere® Fault Tolerance
- ✓ Configure a vSphere cluster using ESXi Cluster Quickstart
- ✓ Describe the functions of a vSphere DRS cluster
- ✓ Create a vSphere DRS cluster

Vsphere Lifecycle

- ✓ Describe how VMWARE vSphere® Lifecycle Manager™ works
- ✓ Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 22, 2026	June 26, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 25, 2027	Jan. 29, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 17, 2026	Aug. 21, 2026	5 days	4950.00 \$	England , London
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Dubai

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