



TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VMW_VSFT7	5 days	£4,800.00

Description

This five-day, intensive course takes you from introductory to advanced VMware vSphere® 7 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7.

Objectives

By the end of the course, you should be able to meet the following objectives:

- Describe the software-defined data center (SDDC)
- Explain the vSphere components and their function in the infrastructure
- Install and configure VMware ESXi™ hosts
- Deploy and configure VMware vCenter® Server Appliance™
- Use VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- Manage, monitor, back up, and protect vCenter Server Appliance
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- 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 manage resource pools
- 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™
- Create virtual networks with VMware vSphere® Distributed Switch™ and enable distributed switch features
- Discuss solutions for managing the vSphere life cycle
- Use VMware vSphere® Lifecycle Manager™ to apply patches and perform upgrades to ESXi hosts and virtual machines
- Use host profiles to manage ESXi configuration compliance
- Describe how vSphere storage APIs help storage systems integrate with vSphere
- Configure and use virtual machine storage policies
- Discuss the purpose and capabilities of VMware vSphere® with Kubernetes and how it fits into the VMware Tanzu™ portfolio

Audience

• System administrators • System engineers

Prerequisites

This course has the following prerequisites: • System administration experience on Microsoft Windows or Linux operating systems

Programme

1 Course Introduction • Introductions and course logistics • Course objectives
2 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 ESXi host
- 3 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™
- 4 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 vCenter Server Appliance
- Monitor vCenter Server tasks, events, and appliance health
- Use vCenter Server High Availability to protect a vCenter Server Appliance 5 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 6 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 7 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™ 8 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 9 vSphere Clusters
- 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 10 Network Scalability • 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 11 vSphere Lifecycle Management
- Describe how VMware vSphere® Lifecycle Manager™ works • Use vSphere Lifecycle Manager to update ESXi hosts in a cluster
- Create and manage resource pools in a cluster 12 Host and Management Scalability • Use host profiles to manage ESXi configuration compliance
- Explain why VMware vSphere® VMFS is a high-performance, scalable file system
- Explain VMware vSphere® Storage APIs - Array Integration, VMware vSphere® API for Storage Awareness™, and vSphere APIs for I/O Filtering
- Configure and assign virtual machine storage policies • Create VMware vSAN™ storage policies
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control
- Discuss vSphere support for NVMe and iSER 14 Introduction to vSphere with Kubernetes
- Differentiate between containers and virtual machines • Identify the parts of a container system
- Recognize the basic architecture of Kubernetes • Describe a basic Kubernetes workflow
- Describe the purpose of vSphere with Kubernetes and how it fits into the VMware Tanzu portfolio
- Explain the vSphere with Kubernetes supervisor cluster • Describe the Tanzu Kubernetes Grid service

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
10 Jan 2022	Virtual Classroom	GMT	English	Instructor Led Online		£4,800.00
28 Mar 2022	Virtual Classroom	BST	English	Instructor Led Online		£4,800.00
16 May 2022	Virtual Classroom	BST	English	Instructor Led Online		£4,800.00
25 Jul 2022	Virtual Classroom	BST	English	Instructor Led Online		£4,800.00
05 Sep 2022	Virtual Classroom	BST	English	Instructor Led Online		£4,800.00
07 Nov 2022	Virtual Classroom	GMT	English	Instructor Led Online		£4,800.00
10 Jan 2022	London - Dowgate Hill	GMT	English	Classroom		£4,800.00
28 Mar 2022	London - Dowgate Hill	BST	English	Classroom		£4,800.00
16 May 2022	London - Dowgate Hill	BST	English	Classroom		£4,800.00
25 Jul 2022	London - Dowgate Hill	BST	English	Classroom		£4,800.00
05 Sep 2022	London - Dowgate Hill	BST	English	Classroom		£4,800.00
07 Nov 2022	London - Dowgate Hill	GMT	English	Classroom		£4,800.00
13 Dec 2021	Virtual Classroom	GMT	English	Instructor Led Online	Yes	£4,800.00

Additional Information

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