



TRAINING OFFERING

You can reach us at:

Arrow ECS, Nidderdale House, Beckwith Knowle, Harrogate, HG3 1SA

Email: educationteam.ecs.uk@arrow.com

Phone: 0870 251 1000



VMware vSphere: Install, Configure, Manage [V7]

CODE:	LENGTH:	PRICE:
VMW_VSICM7	5 days	£3,230.00

Description

This five-day 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 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.

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

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 vSphere Lifecycle Management • Describe how VMware vSphere® Lifecycle Manager™ works
- Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
21 May 2022			English	Self Paced Training		£3,230.00
23 May 2022	Virtual Classroom	BST	English	Instructor Led Online	Yes	£ 3,200.00 £2,240.00
27 Jun 2022	Virtual Classroom	BST	English	Instructor Led Online		£ 3,200.00 £2,240.00
18 Jul 2022	Virtual Classroom	BST	English	Instructor Led Online		£3,200.00
15 Aug 2022	Virtual Classroom	BST	English	Instructor Led Online		£3,200.00
26 Sep 2022	Virtual Classroom	BST	English	Instructor Led Online		£3,200.00
24 Oct 2022	Virtual Classroom	BST	English	Instructor Led Online		£3,200.00
21 Nov 2022	Virtual Classroom	GMT	English	Instructor Led Online		£3,200.00
12 Dec 2022	Virtual Classroom	GMT	English	Instructor Led Online		£3,200.00
23 May 2022	London - Dowgate Hill	BST	English	Classroom	Yes	£3,230.00
27 Jun 2022	London - Dowgate Hill	BST	English	Classroom		£3,230.00
18 Jul 2022	London - Dowgate Hill	BST	English	Classroom		£3,230.00
15 Aug 2022	London - Dowgate Hill	BST	English	Classroom		£3,230.00
26 Sep 2022	London - Dowgate Hill	BST	English	Classroom		£3,230.00
24 Oct 2022	London - Dowgate Hill	BST	English	Classroom		£3,230.00
21 Nov 2022	London - Dowgate Hill	GMT	English	Classroom		£3,230.00
12 Dec 2022	London - Dowgate Hill	GMT	English	Classroom		£3,230.00

Additional Information

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