



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

| CODE: | LENGTH: | PRICE: |
|------------|-------------------|-----------|
| VMW_VSICM8 | 40 Hours (5 days) | £3,230.00 |

Description

This five-day course features intensive hands-on training that focuses 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.

Objectives

- By the end of the course, you should be able to meet the following objectives:**
- Install and configure ESXi hosts
 - Deploy and configure vCenter
 - Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
 - Create 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 vSphere vMotion and vSphere Storage vMotion
 - Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler
 - Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

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 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
- 3 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

4 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

5 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

6 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

8 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

9 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

10 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 automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

Test and Certification

<https://www.vmware.com/learning/certification/vcp-dcv.html>

Further Information

7 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

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0

Session Dates

| Date | Location | Time Zone | Language | Type | Guaranteed | PRICE |
|-------------|---------------------|-----------|----------|-----------------------|------------|-----------------------------------|
| 16 Dec 2024 | Virtual Classroom | GMT | English | Instructor Led Online | Yes | £3,230.00 £2,584.00 |
| 16 Dec 2024 | Arrow ECS Harrogate | GMT | English | Classroom | | £3,230.00 £2,584.00 |
| 13 Jan 2025 | Virtual Classroom | GMT | English | Instructor Led Online | | £3,230.00 |
| 10 Feb 2025 | Virtual Classroom | GMT | English | Instructor Led Online | | £3,230.00 |
| 10 Mar 2025 | Virtual Classroom | GMT | English | Instructor Led Online | | £3,230.00 |
| 07 Apr 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 12 May 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 16 Jun 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 21 Jul 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 18 Aug 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 22 Sep 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 20 Oct 2025 | Virtual Classroom | BST | English | Instructor Led Online | | £3,230.00 |
| 17 Nov 2025 | Virtual Classroom | GMT | English | Instructor Led Online | | £3,230.00 |
| 15 Dec 2025 | Virtual Classroom | GMT | English | Instructor Led Online | | £3,230.00 |

Additional Information

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