



**Arrow ECS Finland Oy - Education Services**

## **TRAINING OFFERING**

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| CODE:      | LENGTH:           | PRICE:    |
|------------|-------------------|-----------|
| VMW_DCVCTS | 32 Hours (4 days) | €3,080.00 |

## Description

This four-day, hands-on training course is an introduction to VMware vSphere®. In this course, you acquire the skills needed to perform Day 2 operational tasks that are typically assigned to the roles of operator or junior administrator in a vSphere environment.

## Objectives

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

- Describe virtualization and virtual machines
- Describe vSphere components and the software-defined data center (SDDC)
- Explain the concepts of server, network, and storage virtualization
- Monitor network and datastore configurations in VMware vSphere® Client™
- Deploy, configure, and clone virtual machines
- Migrate, monitor, and manage virtual machines
- Monitor tasks and events in VMware vSphere® Client™
- Recognize how vSphere DRS and VMware vSphere® High Availability improve performance and availability of a vSphere cluster

## Audience

Technical professionals with basic system administration skills and operators responsible for managing virtual machines using VMware ESXi™ and VMware vCenter Server®

## Prerequisites

- Working knowledge of operating systems
- Understanding of basic network, storage, and computer hardware concepts

## Programme

|   |   |  |
|---|---|--|
| <p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>• Introductions and course logistics</li> <li>• Course objectives</li> </ul>   | <p><b>2 Virtualization and vSphere Concepts</b></p> <ul style="list-style-type: none"> <li>• Describe how virtual machines (VMs) work</li> <li>• Recognize the purpose of a hypervisor</li> <li>• Describe how VMs share resources in a virtualized environment</li> <li>• Recognize the components of an SDDC</li> <li>• Describe the relationship between vSphere, the SDDC, and cloud computing</li> <li>• Recognize the functions of the components in a vSphere environment</li> </ul> | <p><b>4 Lifecycle of Virtual Machines</b></p> <ul style="list-style-type: none"> <li>• Add and remove VM virtual hardware components</li> <li>• Identify the purpose of different VM files</li> <li>• Configure VM settings</li> <li>• Create and delete virtual machines</li> <li>• Recognize the benefits of installing VMware Tools™</li> <li>• Install VMware Tools into a guest operating system</li> <li>• Upgrade VMware Tools and VM hardware compatibility</li> </ul> |
| <p><b>3 Navigating the vSphere Client</b></p> <ul style="list-style-type: none"> <li>• View and organize the inventory objects managed by vCenter Server</li> <li>• Add and assign vSphere licenses</li> <li>• Change the log level of vCenter Server</li> <li>• Edit the startup policy of ESXi services</li> <li>• Describe how vCenter Server roles and permissions work</li> <li>• Add permissions to virtual machines</li> </ul> | <ul style="list-style-type: none"> <li>• Access and view vSphere graphical user interfaces</li> <li>• Identify VMware solutions that integrate with vSphere in the SDDC</li> </ul>  |  |

## 5 vSphere Networking

- Describe virtual networking
- Recognize ways that virtual switches connect VMs and ESXi hosts to the network
- View components and properties of a vSphere standard switch configuration
- View a vSphere distributed switch configuration in vSphere Client
- Recognize when and how to use the settings for the security networking policy
- Recognize when and how to use the settings for the traffic shaping networking policy
- Describe how the NIC teaming and failover policy helps maintain network connectivity
- Perform basic checks to diagnose VM connectivity issues

## 7 Virtual Machine Management

- Recognize the benefits of using VM templates
- Create and update a VM template
- Deploy a VM from an existing template
- Clone a virtual machine
- Recognize how to use guest OS customization specifications
- Deploy VMs from a content library
- Deploy a virtual appliance from an OVF template
- Perform a hot and cold migrations of VMs
- Identify requirements for using VMware vSphere® Storage vMotion®
- Perform a vSphere Storage vMotion migration
- Identify use cases for VM snapshots
- Create and manage snapshots of a virtual machine

## 6 vSphere Storage

- Describe the function of a datastore
- Recognize types of vSphere datastores
- View datastore information in vSphere Client
- Monitor datastore usage in vSphere Client

## 8 Resource Monitoring

- Recognize the purpose of each type of VM resource control
- Configure the resource allocation settings of a VM
- Observe the behavior of virtual machines with different share values
- Manage and acknowledge vSphere alarms
- Use performance charts to monitor VM CPU and memory usage
- Monitor tasks and events in vSphere Client

## 9 vSphere Clusters

- View information about the services that a vSphere cluster offers
- Recognize how vSphere HA responds to different types of failures
- Monitor vSphere HA during a host failure
- Describe how vSphere DRS works
- Interpret DRS scores given to VMs
- Recognize how to apply the appropriate vSphere DRS automation and migration threshold levels
- Describe how vSphere Fault Tolerance works
- Recognize how Enhanced vMotion Compatibility works

## Test and Certification

Attending this course is recommended to achieve the following certification:

- VMware Certified Technical Associate - Data Center Virtualization (VCTA-DCV)

## Session Dates

Aikataulutamme kiinnostuksen mukaan. [Ota yhteyttä](#)

## Additional Information

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