



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Sie erreichen uns unter**

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CODE:	LÄNGE:	PREIS:
VMW_DCVCTS	32 Hours (4 Tage)	€2,760.00

## Description

### Lernziel

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

### Zielgruppe

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

### Voraussetzungen

This course has the following prerequisites:

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

### Inhalt

- 1 Course Introduction
  - Introductions and course logistics
  - Course objectives
- 2 Virtualization and vSphere Concepts
  - Describe how virtual machines (VMs) work
  - Recognize the purpose of a hypervisor
  - Describe how VMs share resources in a virtualized environment
  - Recognize the components of an SDDC
  - Describe the relationship between vSphere, the SDDC, and cloud computing
  - Recognize the functions of the components in a vSphere environment
- 3 Navigating the vSphere Client
  - View and organize the inventory objects managed by vCenter Server
  - Add and assign vSphere licenses
  - Change the log level of vCenter Server
  - Edit the startup policy of ESXi services
  - Describe how vCenter Server roles and permissions work
  - Add permissions to virtual machines
- 4 Lifecycle of Virtual Machines
  - Add and remove VM virtual hardware components
  - Identify the purpose of different VM files
  - Configure VM settings
  - Create and delete virtual machines
  - Recognize the benefits of installing VMware Tools™
  - Install VMware Tools into a guest operating system
  - Upgrade VMware Tools and VM hardware compatibility

## 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 und Zertifizierung

Attending this course is recommended to achieve the following certification:

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

## Kurstermine

Auf Anfrage. Bitte [kontaktieren Sie uns](#)

## Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)