

# VMware vSphere: Design V8

This course provides you with the knowledge, skills and abilities to design a VMware vSphere virtual infrastructure. You will follow a proven approach to developing a virtualization solution that ensures availability, manageability, performance, recoverability and security. The approach presented follows VMware best practices. This course discusses the benefits and risks of the available design alternatives and provides information to support informed design decisions.

#### **Course Contents**

- Course Introduction
- Infrastructure Assessment
- Designing for Manageability: Capacity Planning
- Designing for Manageability: Scalability
- Designing for Manageability: Lifecycle Management
- Designing for Availability
- Designing for Performance
- Designing for Security
- Designing for Recoverability

E-Book You will receive the documentation of VMware in English language as an ebook.

#### **Target Group**

System integrators, consultants, solution architects

#### Prerequisites

You should have attended the following courses or have the relevant knowledge:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale and Secure

#### This Course in the Web



■ 🛄 You can find the up-to-date information and options for ordering under the following link:

www.experteach-training.com/go/VVDE

#### Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

#### **Guaranteed Course Dates**

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

#### Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
Classes in Germany	3 Days	€ 2,195
Online Training	3 Days	€ 2,195
Date/course venue Course language German		
05/11-07/11/25 🎹 Frankfurt	05/11-07/11/25	HY Online

Status 04/26/2025





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## Table of Contents VMware vSphere: Design V8

### **1** Course Introduction

- Introductions and course logistics
- Course objectives

### 2 Infrastructure Assessment

· Follow a proven process to design a virtualization solution

• Define customer business objectives

- Gather and analyze business and application requirements
- · Document design requirements, constraints, assumptions, and risks
- Use a systematic method to evaluate and document 7 Network Infrastructure design decisions
- Create a conceptual design

#### **3** Core Management Infrastructure

- Determine the number of VMware vCenter<sup>®</sup> Server ApplianceTM instances to include in a design
- Choose the appropriate single sign-on identity source
- Choose the time synchronization method
- Choose methods to collect log files and VMware ESXi<sup>™</sup> core dumps

• Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data

center

#### **4 Virtual Data Center Infrastructure**

• Calculate total compute capacity requirements for a • Make security design decisions for various layers in virtual data center

• Create a virtual data center cluster design that meets business and workload requirements

• Evaluate in the virtual data center the use of several management services, such as VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™

• Evaluate the use of resource pools in the virtual data center design

#### **5** Compute Infrastructure

• Create a compute infrastructure design that includes the appropriate ESXi boot, installation, and configuration options

• Choose the ESXi host hardware for the compute

#### infrastructure

#### 6 Storage Infrastructure

- Calculate storage capacity and performance
- requirements for a design
- Evaluate the use of different storage platforms and storage management solutions
- Design a storage platform infrastructure and storage management architecture that meets the needs of

the

vSphere environment

- Evaluate the use of different network component and network management solutions
- Design a network component architecture that
- includes information about network segmentation and virtual
- switch types

• Design a network management architecture that meets the needs of the vSphere environment

#### **8 Virtual Machine Design**

 Make virtual machine design decisions, including decisions about resources

• Design virtual machines that meet the needs of the applications in the vSphere environment and follow VMware best practices

#### 9 Infrastructure Security

the vSphere environment

• Design a security strategy that meets the needs of the vSphere environment and follows VMware best practices

#### 10 Infrastructure Manageability

• Make infrastructure manageability design decisions that adhere to business requirements

• Design an infrastructure manageability strategy that meets the needs of the vSphere environment and follows VMware best practices

#### **11 Infrastructure Recoverability**

 Make infrastructure recoverability design decisions that adhere to business requirements

• Design an infrastructure recoverability strategy that meets the needs of the vSphere environment and follows VMware best practices

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