



VMware vSphere: Design [V8]

Course Duration: 3 Days

Course Overview

This course is designed for IT professionals who need to develop and validate comprehensive vSphere designs based on real-world business requirements. You will learn to assess business objectives, apply a design framework, and make critical design choices across all layers of the vSphere environment to ensure manageability, scalability, capacity, availability, performance, security, and recoverability.

Prerequisites

This course requires completion of one of the following:

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

Course Objectives

- Create a vSphere design given a case study.
- Identify and assess business objectives, requirements, constraints, assumptions, and risks for all vSphere layers.
- Apply a structured framework to the design process.
- Analyze and identify optimal design choices for vCenter, ESXi, storage, networking, vSphere clusters, and virtual machines.
- Identify design decisions to ensure manageability (scalability, capacity planning, and lifecycle management).
- Identify design decisions to ensure high availability and performance.
- Identify design decisions to ensure security and recoverability (disaster recovery).



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Course Outline

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: Infrastructure Assessment

- Describe various design framework principles
- Follow a proven process to design a virtualization solution
- Define customer business objectives and requirements
- Use a systematic method to evaluate and document a conceptual model
- Create a logical design from a conceptual model
- Recognize key information contained in the physical design

Module 3: Designing for Manageability: Capacity Planning

- Make capacity planning design decisions that adhere to business requirements
- Design capacity planning strategies that meet the needs of the vSphere environment and follow VMware best practices
- Calculate compute and storage requirements for the VMs in the vSphere environment

Module 4: Designing for Manageability: Scalability

- Make scalability design decisions that adhere to business requirements
- Design scalability strategies that meet the needs of the vSphere environment and follow VMware best practices

Module 5: Designing for Manageability: Lifecycle Management

- Make lifecycle management design decisions that adhere to business requirements
- Design lifecycle management strategies that meet the needs of the vSphere environment and follow VMware best practices
- Designing for Availability
 - Make availability design decisions that adhere to business requirements
 - Design availability strategies that meet the needs of the vSphere environment and follow VMware best practices



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Module 6: Designing for Performance

- Make performance design decisions that adhere to business requirements
- Design performance strategies that meet the needs of the vSphere environment and follow VMware best practices
- Designing for Security
 - Make security design decisions that adhere to business requirements
 - Design security strategies that meet the needs of the vSphere environment and follow VMware best practices
- Designing for Recoverability
 - Make recoverability design decisions that adhere to business requirements
 - Design recoverability strategies that meet the needs of the vSphere environment and follow VMware best practices