

VMware vSphere: Design [V8]

Course Duration:24 Hours

Course code: VSD8

1. Course Overview

During this 3-day course, you focus on designing a VMware vSphere 8 environment to meet specific customer requirements. Learn a proven design methodology, explore vSphere 8 architecture and components, and understand how to apply design principles across compute, storage, networking, and security. Examine key considerations for scalability, availability, manageability, and recoverability. The course also covers documentation best practices, presenting your design to stakeholders, and validating against business and technical requirements.

2. What you'll learn?

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

- Describe the VMware vSphere 8 architecture and components
- Apply a structured design methodology to vSphere projects
- Identify and gather business and technical requirements
- Design compute, storage, networking, and security architectures for vSphere 8
- Evaluate design trade-offs and constraints
- Document and present vSphere designs effectively
- Apply best practices for scalability, availability, manageability, and recoverability

3. Target Audience

Experienced VMware vSphere architects, system engineers, and consultants responsible for designing vSphere infrastructures.

4. Pre-Requisites

Familiarity with:

- VMware vSphere administration and features
- VMware vSAN and NSX basics
- General data center infrastructure concepts

5. Course content

1. Course Introduction

- Introductions and course logistics
- Course objectives

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

3. Designing for Manageability: Capacity Planning

- Make capacity planning design decisions that align with 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 virtual machines in the vSphere environment

4. Designing for Manageability: Scalability

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

5. Designing for Manageability: Lifecycle Management

- Make lifecycle management design decisions that align with business requirements
- Design lifecycle management strategies that meet the needs of the vSphere environment and follow VMware best practices

6. Designing for Availability

- Make availability design decisions that align with business requirements
- Design availability strategies that meet the needs of the vSphere environment and follow VMware best practices

7. Designing for Performance

- Make performance design decisions that align with business requirements
- Design performance strategies that meet the needs of the vSphere environment and follow VMware best practices

8. Designing for Security

- Make security design decisions that align with business requirements
- Design security strategies that meet the needs of the vSphere environment and follow VMware best practices

9. Designing for Recoverability

- Make recoverability design decisions that align with business requirements
- Design recoverability strategies that meet the needs of the vSphere environment and follow VMware best practices