

## VMware vSphere: Design

**Durée: 3 Jours**    **Réf de cours: VSD**    **Version: 8.0**    **Méthodes d'apprentissage: Virtual Learning**

### Résumé:

This three-day course equips you with the knowledge, skills, and abilities to design a VMware vSphere 8 virtual infrastructure. You follow a proven approach to design 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 available design alternatives and provides information to support making sound design decisions.

### Product Alignment

VMware ESXi 8.0  
VMware vCenter 8.0

### Public visé:

Individuals involved in the design of a vSphere solution

### Objectifs pédagogiques:

#### ■ After completing this course you should be able to:

- Create a vSphere design given a case study
- Identify and assess the business objectives of the vSphere environment
- Identify business requirements, constraints, assumptions, and risks, for all layers in the vSphere environment
- Apply a framework to a design
- Analyze design choices for vCenter, ESXi, storage, networking, vSphere clusters, and virtual machines
- Identify design decisions to ensure manageability, which include scalability, capacity planning and lifecycle management
- Identify design decisions to ensure that the vSphere environment is highly available
- Identify design decisions to ensure that the vSphere environment performs well
- Identify design decisions to ensure that the vSphere environment is secure
- Identify design decisions to ensure that the vSphere environment can recover from data loss or disaster

### Pré-requis:

#### Attendees should meet the following prerequisites:

- Completion of one of the following courses
- VSICM - VMware vSphere: Install, Configure, Manage
- VSOS - VMware vSphere : Optimize & Scale

### Test et certification

#### Recommended as preparation for the following exams:

- 3VO - 21.23 - VMware vSphere 8.x Advanced Design - Required for VCAP-DCV-Design 2023 Certification

## Contenu:

### Course Introduction

- Introductions and course logistics
- Course objectives

### 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

### 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

### 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

### 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

### 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

## Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

### Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou "booking form" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via [moncompteformation.gouv.fr](http://moncompteformation.gouv.fr).

### Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur [globalknowledge.fr/handicap](http://globalknowledge.fr/handicap)
- Le Règlement intérieur est disponible sur [globalknowledge.fr/reglement](http://globalknowledge.fr/reglement)