

5 Days

VSDDFT6: VMware vSphere: Design and Deploy Fast Track [V6]

VMware vSphere Design & Deploy Fast Track [v6] is an extended-hours, intensive training course that helps vSphere Consultants to design and deploy a highly scalable vSphere 6.0 infrastructure. The training provides lectures and hands-on lab on real time projects for participants to design and deploy an infrastructure that match with the business and application requirements. It is necessary to make sound design decisions that facilitate manageability, security, scalability and availability at all operational levels.

The training and certification for this course will set the knowledge base to assess business needs, analyze best VMware practices, create sound design decisions, and deploy them on the virtual data centers, compute infrastructures, storage and network infrastructures of an enterprise.

This course is based on VMware ESXi™ 6.0 and VMware vCenter Server™ 6.0.

Course Details

Course Outline

1. Course Introduction

- Introduction to course logistics
- Course objectives

2. Infrastructure Assessment

- Defining customer business objectives
- Gather and analyze business and application requirements
- Documenting design requirements, constraints, assumptions, and risks
- Deploy a systematic method to evaluate and document design decisions
- Create a conceptual design

3. Core Management Infrastructure

- Analyze the number of vCenter Server instances to include in a design
- Choosing appropriate platforms for vCenter Server components and databases
- Review a core management infrastructure design and deploy it as designed
- Designing a vCenter Server deployment topology that is appropriate for the size and requirements of the data center

4. Virtual Data Center Infrastructure

- Calculating total capacity requirements for a design
- Building a virtual data center cluster design that meets business and workload requirements
- Determining the use of various management services, such as VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™, in the virtual data center design
- Evaluating the use of resource pools in the virtual data center design
- Using virtual data center components for the given vSphere design

5. Compute Infrastructure

- Building a compute infrastructure design that includes the appropriate ESXi boot, installation, and configuration options
- Review a compute infrastructure design and deploy it as designed
- Choosing the ESXi host hardware for the compute infrastructure
- Configure and run a script to automate ESXi host installation

6. Storage Infrastructure

- Calculate storage capacity and performance requirements for a design
- Analyze the use of different storage platform and storage management solutions
- Design a storage platform and storage management architecture that meets the needs of the environment
- Reviewing a storage platform design and deploy it as designed
- Reviewing a storage management design and deploy it as designed

7. Network Infrastructure

- Evaluating the use of different network component and network management solutions
- Designing a network component architecture that includes information about network segmentation and virtual switch types
- Reviewing a network component design and deploy it as designed
- Designing a network management architecture that meets the needs of the environment
- Reviewing a storage management design and deploy it as designed

8. Virtual Machine Design

- Creating virtual machine design decisions, including decisions for resources
- Designing virtual machines that meet the needs of the applications in the environment
- Reviewing a virtual machine design and deploy it as designed

9. Infrastructure Security

- Making security design decisions for various layers in the vSphere environment
- Designing a security strategy that meets the needs of the vSphere environment
- Reviewing an infrastructure security design and deploy it as designed

10. Infrastructure Manageability

- Creating VMware vSphere® Update Manager™ design decisions that meet the requirements of the data center
- Reviewing a vSphere Update Manager architecture design and deploy it as designed
- Reviewing an infrastructure management design and deploy it as designed
- Make infrastructure management design decisions for the required areas
- Designing an infrastructure management strategy that meets the needs of the vSphere environment

11. Infrastructure Recoverability

- Make infrastructure recoverability design decisions in the required areas
- Designing an infrastructure recoverability strategy that meets the needs of the vSphere environment
- Reviewing an infrastructure recoverability design and deploy it as designed

Who Should Attend

The VMware vSphere Design and Deploy Fast Track V6 training course is ideal for those working with the profiles of:

- Experienced System Integrators
- consultants responsible for designing and deploying vSphere environments

Pre Requisite

Completion of the following courses:

- VMware vSphere: ICM [V6.0]
- VMware vSphere: Optimize and Scale [V6.0]

Or equivalent experience with vSphere deployments

Exams

VMware Certified Associate (VCA) [VCA]

VMware Certified Professional (VCP) [VSDDFT6]

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Date - Jun 13, 2026