



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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CODE:	LENGTH:	PRICE:
VMW_VSANDM67	24 Hours (3 days)	€2,070.00

## Description

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

## Objectives

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

- Describe the vSAN architecture
- Identify vSAN features and use cases
- Configure vSAN networking components
- Configure a vSAN cluster
- Deploy virtual machines on a vSAN datastore
- Configure virtual machine storage policies
- Perform ongoing vSAN management tasks
- Configure vSAN encryption
- Control vSAN resynchronization tasks
- Create and manage nested fault domains
- Use the vSAN health service to monitor health and performance
- Configure a stretched cluster and observe failover scenarios
- Describe vSAN interoperability with VMware vSphere® features and other products
- Plan and design a vSAN cluster

## Audience

Storage and virtual infrastructure administrators who want to use software-defined storage with vSAN

## Prerequisites

This course requires meeting one of the following prerequisites:

- Storage administration experience on block or file storage devices
- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.x] course

Experience working at the command line is helpful.

## Programme

1 Course Introduction • Introductions and course logistics • Course objectives • Describe the software-defined data center  
2 Introduction to vSAN • Describe basic vSAN architecture and components

- Describe the differences between file, block, and object storage
- Explain the advantages of object-based storage
- Detail the configuration of a vSAN cluster
- Install and validate the initial vSAN installation and configuration

3 vSAN Configuration • Apply vSAN design considerations • Detail the expansion of a vSAN cluster

- Configure vSAN disk groups manually
- Identify physical network configuration requirements
- Describe the configuration of vSAN networking
- Test and validate the vSAN configuration and functionality
- Describe the vSAN architecture and components
- Describe the differences between the vSAN hybrid and all-flash architectures
- Describe the advantages of all-flash architecture
- Describe the space-efficiency features of vSAN
- Describe the different vSAN assessment tools
- Explain vSAN License Details
- 4 vSAN Policies and Virtual Machines
- Explain how storage policies work with vSAN
- Define and create a virtual machine storage policy
- Apply and modify virtual machine storage policies
- Change virtual machine storage policies dynamically
- Identify virtual machine storage policy compliance status

5 Managing and Operating vSAN

  - Explain how to configure encryption in the vSAN cluster
  - Explain the management of hardware storage devices
  - Identify alarms for vSAN events
  - Describe and configure fault domains
  - Describe the configuration of the vSAN iSCSI service, iSCSI targets, and LUNS

6 Stretched Clusters and Two-Node Clusters

    - Describe the architecture for stretched clusters and two-node clusters
    - Create a stretched cluster
    - Describe how stretched cluster storage policies affect vSAN objects
    - Create and apply a vSAN stretched cluster policy to meet specific needs
    - Discuss the behavior of a stretched cluster when various types of failures occur

7 Monitoring and Troubleshooting vSAN

      - Discuss hardware failure scenarios
      - Describe the process of resynchronization
      - Explain the possible reasons for resynchronization
      - Describe the use of vSphere Client to detect issues

- Explain the use of the health service to monitor vSAN health
- Explain the use of the performance service to monitor vSAN performance. • Monitor and test the vSAN environment
- Describe vSAN architecture components and the PNOMA OSI model.

## **Session Dates**

On request. Please [contact us](#)

## **Additional Information**

[This training is also available as onsite training. Please contact us to find out more.](#)