



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
VM-VS-TSW-[V6.X]	16 Hours (2 days)	\$1,850.00

## Description

In this two-day course, you will focus on learning the tools and skills necessary to troubleshoot VMware vSAN 6.6 implementations. You will gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on challenge lab exercises.

## Objectives

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

- Describe the software components
- Diagram how the components relate to each other
- Describe vSAN object placement
- Explain the differences between object states
- Explain how storage policies affect object states
- Predict how specific failures affect object states

## Audience

Storage and virtual infrastructure administrators who want to be able to perform initial troubleshooting on their software-defined storage with vSAN

## Prerequisites

This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.5] course
- Completion of the VMware vSAN: Deploy and Manage [V6.6] course or equivalent experience with vSAN
- Experience working with Linux command-line interfaces. The course presumes that a student can perform the following tasks with no assistance or guidance before enrolling:
  - Use VMware vSphere® Web Client for common operations
  - Create and manage VMware vCenter Server objects, such as data centers, clusters, hosts, and virtual machines
  - Create and modify a standard switch
  - Modify a distributed switch
  - Create a VMware vSphere® VMFS datastore
  - Use a wizard or a template to create a virtual machine
- Migrate a virtual machine with VMware vSphere vMotion and VMware vSphere Storage vMotion. If you cannot complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6.x] and VMware vSAN: Deploy and Manage [v6.x] courses before enrolling in VMware vSAN: Troubleshooting.

## Program

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 vSAN Software Architecture

- Describe the vSAN architecture and components
- Describe the policy -driven, object-based vSAN storage environment
- Describe the vSAN software components: CLOM, DOM, LSOM, CMMDS, and RDT
- Explain the relationships between the vSAN software components
- Explain the relationship between objects and components
- Determine how specific storage policies affect components
- Describe component placement

### 3 Troubleshooting Methodology

- Use a structured approach to solve configuration and operational problems
- Apply troubleshooting methodology to logically diagnose faults and optimize troubleshooting efficiency

### 4 Troubleshooting Tools

- Replace a failed witness appliance
- Discuss the ways to run various command-line tools
- Discuss the ways to access VMware vSphere® ESXi™ Shell
- Use commands to view, configure, and manage your VMware vSphere environment
- Explain which log files are useful for vSAN troubleshooting
- Use log files to help troubleshoot vSAN problems
- Discuss the esxcli vsan namespace commands
- Discuss how to use Ruby vSphere Console commands

## Test and Certification

No certifications are tied to this course.

## Session Dates

On request. Please [Contact Us](#)

## Additional Information

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