

## VMware vSphere: Troubleshooting

This lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere™ virtual infrastructure. In this course, you will spend most of the time diagnosing and rectifying configuration problems created on VMware® ESX™/ESXi hosts and VMware vCenter™ Server systems.

### PROPOSED COURSE OUTLINE – FINAL TO STILL BE CONFIRMED

#### Course Objectives

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

- Use the VMware vSphere Client and service console commands to configure or diagnose and rectify problems on ESX
- Use the vSphere Client and the VMware vSphere Management Assistant (vMA) appliance to configure or diagnose and rectify problems on ESX and ESXi hosts
- Use ESXi technical support mode to diagnose and rectify problems on ESXi
- Create and use a network sniffer to capture and display virtual switch network traffic
- Use the vSphere Client and command-line tools to troubleshoot VMware VMotion™, VMware Storage VMotion, VMware High Availability, VMware Distributed Resource Scheduler, and virtual machine power-on problems

#### Course Outline

##### Module 1: Course Introduction

##### Module 2: ESXi Command-Line Troubleshooting Methods

- Install and use vMA
- Learn common VMware vSphere Command-Line Interface commands and syntax
- Configure ESXi technical support mode and SSH access

##### Module 3: ESX, ESXi, and vCenter Server Log Files

- View ESX, ESXi, and vCenter Server log files
- Configure a centralized ESX/ESXi log host

##### Module 4: Network Troubleshooting

- Identify and configure vNetwork components

- Configure and use a network traffic sniffer

##### Module 5: Management Troubleshooting

- Troubleshoot vSphere management components

##### Module 6: Storage Troubleshooting

- View, configure, and diagnose storage access problems
- Configure iSCSI authentication and digests

##### Module 7: VMotion Troubleshooting

- Troubleshoot VMotion and Storage VMotion errors

##### Module 8: VMware HA Cluster Troubleshooting

- Troubleshoot errors with slot calculations, admission control, and host monitoring

##### Module 9: DRS Cluster Troubleshooting

- Troubleshoot errors with shares, pools, and limits

##### Module 10: Virtual Machine Troubleshooting

- Review power-on requirements
- Troubleshoot virtual machine power-on failures

##### Module 11: Graduation Lab

- Complete a final multihour, multiproblem troubleshooting exercise

#### Please note:

**This course outline has yet to be confirmed. This is a proposed version of the course content at the present time.**

**Any updated versions or the final approved version will be communicated as soon as they become available.**

#### Prerequisites

This is an advanced course. Prerequisites include the completion of one of the following:

- Completion of the following three courses:
  - VMware vSphere: Install, Configure, Manage
  - VMware vSphere: Manage Availability
  - VMware vSphere: Manage Scalability
- Completion of vSphere: Fast Track.
- Equivalent knowledge and administration experience with ESX/ESXi and vCenter Server

Length: 4 days  
25% lecture  
75% hands-on lab

*This course is for System administrators, systems engineers, and help desk personnel who need the knowledge, skills, and abilities to perform advanced troubleshooting of their*

vSphere deployments  
For course enquiries or competitive prices ring  
**01344 401641**

