

## VMware Cloud Foundation: Troubleshooting

**Duration: 5 Days    Course Code: VMCFT    Version: 9.0**

### Overview:

This comprehensive five-day hands-on training is designed to provide you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware Cloud Foundation® (VCF) 9.0 environments. This course blends lecture and hands-on lab exercises to deliver advanced skills to diagnose and resolve problems in VMware Cloud Foundation 9.0 environments. This course also focuses on investigating and resolving problems and analyzing log files to help you recognize log file entries that identify root causes

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

System Administrators, Solution Engineers, Consultants, and Support Personnel

### Objectives:

- **After completing this course you should be able to:**
- Describe the VCF solution
- Describe the VCF architecture and components/li>
- Describe the deployment model based on the existing infrastructure/li>
- Explain the troubleshooting methodology to resolve common validation precheck errors/li>
- Identify and use the correct logs to troubleshoot VMware Cloud Foundation (VCF) Installer/li>
- Describe the license assignment process for connected and disconnected deployments/li>
- Identify the log file and log locations for VCF licensing components/li>
- Explain the workload domain creation workflow/li>
- Troubleshoot network pool creation/li>
- Troubleshoot VMware® ESX® host commissioning/li>
- Monitor VMware vSAN™ health using the VMware Cloud Foundation® Operations console/li>
- Monitor vSAN Health using vSphere Client/li>
- Monitor network operations/li>
- Analyze flows and network performance/li>
- Describe central password management in VCF Operations/li>
- Monitor password expiration/li>
- Describe the architecture and components of the VMSP cluster/li>
- Identify key log files to troubleshoot the VMSP cluster provisioning/li>
- Identify key kubectl commands and logs to check the health status of the VMSP cluster/li>
- Generate, download, and review the structure of the VMware Cloud Foundation® Automation support log bundle

### Prerequisites:

### Testing and Certification

#### Attendees should meet the following prerequisites:

- Before taking this course, students should have completed the VMware Cloud Foundation Fundamentals for Technical Support training from Support Learning Path Stage-1.
- Familiarity with command-line interfaces is strongly recommended
- VMNSXICM - VMware NSX: Install, Configure, Manage
- VMVSANICM - VMware vSAN: Install, Configure, Manage
- VSICM - VMware vSphere: Install, Configure, Manage

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

- **2V0-18.25** - VMware: Cloud Foundation Troubleshooting

#### Content:

##### 1. Course Introduction

- Introduction and course logistics
- Course objectives

##### 2. Troubleshooting VCF Deployment

- Describe the VCF solution
- Describe the VCF architecture and components
- Describe the sequence of steps that occur during the VCF installation process
- Identify key log files to troubleshoot the VCF installation
- Describe the VMware vSphere® Foundation solution
- Describe the vSphere Foundation architecture and components

##### 3. Troubleshooting Upgrades

- Understand the deployment model based on the existing infrastructure
- Explain the troubleshooting methodology to resolve common validation precheck errors
- Identify and use the correct logs to troubleshoot VMware Cloud Foundation (VCF) Installer
- Explain the key components and features of VMware vSphere Foundation 9.0 Private Cloud
- Understand the architecture of VMware vSphere Foundation 9.0 Private Cloud
- Identify and analyze the supported upgrade paths to vSphere Foundation 9.0 private cloud
- Identify the prerequisites to deploy vSphere Foundation

##### 4. Troubleshooting License

- Describe the license assignment process for connected and disconnected deployments
- Identify the log file and log locations for VCF licensing components
- Run commands on the ESX host to verify licensing status

##### 5. Workload Domain Troubleshooting

- Describe the workload domain architecture and components
- Explain the workload domain creation workflow
- Troubleshoot network pool creation
- Troubleshoot ESX host commissioning
- Troubleshoot the different steps in workload domain creation

##### 6. Troubleshooting VMware Cloud Foundation Compute

- Monitor compute environments using VMware Cloud Foundation
- Troubleshoot ESX hosts and vCenter issues effectively
- Diagnose and resolve virtual machine problems efficiently
- Describe vSphere cluster features and related issues
- Describe diagnostic findings to identify and remediate issues

##### 7. Troubleshooting VCF vSAN Storage

- Monitor vSAN health using the VCF Operations console
- Monitor vSAN Health using VCF Operations diagnostics Health in the vSphere Client
- Monitor object health in the vSphere Client

##### 8. Troubleshooting VMware Cloud Foundation Networking

- Monitor network operations
- Deploy the Operations Network appliance
- Analyze flows and network performance

##### 9. Troubleshooting VCF Operations Fleet Management

- Describe central password management in VCF Operations
- Implement password management
- Monitor password expiration
- Update VCF component passwords

##### 10. Troubleshooting VMware Cloud Foundation Automation

- Describe the architecture and components of the VMSP cluster
- Identify key log files to troubleshoot the VMSP cluster provisioning
- Identify key kubectl commands and logs to check the health status of the VMSP cluster
- Generate, download, and review the structure of the VCF Automation support log bundle

### Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

[training@globalknowledge.qa](mailto:training@globalknowledge.qa)

[www.globalknowledge.com/en-qa/](http://www.globalknowledge.com/en-qa/)

Global Knowledge, Qatar Financial Center, Burj Doha, Level 21, P.O.Box 27110, West Bay, Doha, Qatar