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# VMware Cloud Foundation: Management and Operations [V4.0]

CODE:	LENGTH:	PRICE:
VMW_VCFMO4	24 Hours (3 days)	kr23,000.00

## Description

This three-day course includes instruction on the capabilities of VMware Cloud Foundation™ to manage and operate hybrid and cloud infrastructures, which includes customization and management. The course explains the architecture of VMware vCloud Foundation and explains licensing, certificates, VMware vSAN™, maintenance, and multi-instancing. The course also covers workload domains, workload migration, availability, and troubleshooting. In general, you learn how to use and configure VMware Cloud Foundation 4.0.

## Objectives

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

- Describe VMware Cloud Foundation architecture
- Use SDDC Manager to perform operational tasks
- Describe user roles in VMware Cloud Foundation and VMware vSphere®
- Manage users and passwords using VMware Cloud Foundation
- Manage certificate rotation for VMware Cloud Foundation components
- Use Active Directory integration to automate certificate generation and rotation
- Describe workload domains
- Manage workload domains in VMware Cloud Foundation
- Manage VMware NSX-T™ for VMware Cloud Foundation
- Describe use cases for Application Virtual Networks (AVNs)
- Meet VMware vSphere® with Kubernetes requirements
- Deploy a vSphere with Kubernetes enabled workload domain
- Manage vSAN storage in a workload domain
- Create vSAN storage policies
- Describe Cloud Native storage
- Describe the importance of business continuity measures in VMware Cloud Foundation
- Plan appropriate backup and restore workflows for VMware Cloud Foundation components
- Implement stretched clusters in VMware Cloud Foundation workload domains

## Audience

Experienced system administrators, system integrators, and consultants responsible for implementing and managing VMware Cloud Foundation

## Prerequisites

This class requires system administration experience with VMware vSphere deployments or completion of one of the following courses:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Optimize and Scale

# Programme

## 1 Course Introduction

- • Introductions and course logistics
- • Course objectives

## 2 VMware Cloud Foundation Overview

- • Describe the VMware Cloud Foundation 4 solution
- • Describe VMware Cloud Foundation 4 architecture
- • Identify VMware Cloud Foundation 4 components
- • Describe VMware Cloud Foundation 4 topology
- • Define VMware Cloud Foundation 4 terminology

## 3 Post Deployment Operations

- • Integrate VMware Cloud Foundation with VMware vCenter Single Sign-On
- • Configure user accounts in VMware Cloud Foundation
- • Manage passwords in VMware Cloud Foundation
- • Describe the two roles in VMware Cloud Foundation

## 4 Licensing

- • Add license keys to the VMware Cloud Foundation inventory
- • Assign license keys
- • Remove license keys
- • Replace expiring licenses

## 5 Managing Workload Domains

- • Define a workload domain
- • Create, scale, and delete workload domains
- • Describe use cases for multiple clusters in a workload domain
- • Manage storage options for workload domains
- • Plan and implement network pools for consumption by workload domains
- • Compare multiple workload domains and multi-cluster options

## 6 VMware Cloud Foundation Networking with NSX-T

- • Discuss NSX-T automation in VMware Cloud Foundation
- • Discuss NSX-T in the Management Domain
- • Learn About Application Virtual Networks (AVNs)
- • Use of AVNs in the Deployment Parameter Sheet
- • Other AVN uses

## 7 Kubernetes Enabled Workload Domains

- • Describe vSphere with Kubernetes
- • Describe vSphere with Kubernetes containers, pods, and supervisor clusters
- • Configure Namespaces
- • Implement vSphere with Kubernetes in a Workload Domain

## 8 VMware Cloud Foundation Storage Management

- • Identify vSAN architecture and components
- • Describe vSAN file services
- • Discuss how to scale vSAN clusters in VMware Cloud Foundation
- • Explain how storage policies work with VMware Cloud Foundation vSAN clusters
- • Discuss external storage as supplemental storage
- • Describe Cloud Native Storage
- • Describe vSphere with Kubernetes for Cloud Native Storage consumption

## 9 VMware Cloud Foundation Certificate Management

- • Describe the initial deployment state of certificates
- • Manage SDDC certificate rotation
- • Describe certificate creation options
- • Describe certificate rotation using Active Directory
- • Use SDDC Manager to create Certificate Signing Requests (CSRs)

## 10 Workload Migration

- • Explain migration use cases
  - • Describe migration tools and methods
  - • Describe VLAN bridging using VMware NSX
- • Discuss the advantages of using VMware vSphere Replication™ with VMware Site Recovery Manager™

## 11 Life Cycle Management

- • Describe the role of SDDC Manager in lifecycle management
- • Describe the different LCM options available in VMware Cloud Foundation 4
- • Describe the upgrade prerequisites and upgrade precheck process

## Session Dates

På begäran, [kontakta oss](#)

## Ytterligare information

[Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.](#)