

# VMware Cloud Foundation: Deploy, Configure, Manage [v5.2]

**Course Duration: 40 Hours**

**Course Code: VCFDCM52**

## 1. Course Overview

The *VMware Cloud Foundation: Deploy, Configure, Manage [v5.2]* course provides the essential skills to deploy and manage a complete software-defined data center (SDDC) on top of VMware Cloud Foundation. Participants will gain hands-on experience with SDDC Manager, workload domains, lifecycle management, and integration of vSphere, vSAN, and NSX. This training ensures professionals can streamline operations and deliver a consistent hybrid cloud infrastructure across private and public clouds.

## 2. What You'll Learn?

By the end of this course, you will be able to:

- Understand VMware Cloud Foundation architecture and core components.
- Deploy and configure Cloud Foundation management domains.
- Manage workload domains and lifecycle operations.
- Integrate VMware vSphere, vSAN, and NSX with Cloud Foundation.
- Perform system monitoring, upgrades, and troubleshooting.
- Secure and optimize your Cloud Foundation environment for enterprise use cases.

## 3. Target Audience

This course is designed for:

- System Administrators
- Cloud Administrators
- Data Center Administrators
- Infrastructure Engineers
- Professionals managing VMware-based private or hybrid cloud infrastructures

## 4. Pre-Requisites

Participants should have:

- Knowledge of VMware vSphere (equivalent to completion of *vSphere: Install, Configure, Manage* course).
- Understanding of VMware NSX and vSAN fundamentals.
- Basic familiarity with data center concepts and cloud technologies.

## 5. Course Content

### **Module 1: Introduction to VMware Cloud Foundation**

- Overview of VMware Cloud Foundation architecture
- Core components and features
- Use cases in enterprise and hybrid cloud

### **Module 2: VMware Cloud Foundation Deployment**

- Planning and prerequisites for deployment
- Management domain deployment with Cloud Builder
- Configuring SDDC Manager

### **Module 3: Managing Workload Domains**

- Creating and managing VI workload domains

- Network and storage configurations
- Scaling and workload mobility

#### **Module 4: Lifecycle Management**

- Performing updates and upgrades with SDDC Manager
- Patching vSphere, vSAN, and NSX
- Automating lifecycle management

#### **Module 5: Integrations with VMware Components**

- Integrating with vSphere, vSAN, and NSX
- Advanced networking and security configurations
- Hybrid cloud integration with VMware Cloud on AWS

#### **Module 6: Monitoring and Operations**

- Health monitoring and system checks
- Role-based access control and security
- Backup and restore options

#### **Module 7: Troubleshooting and Best Practices**

- Troubleshooting common deployment and operational issues
- Applying best practices for Cloud Foundation management
- Preparing for enterprise adoption