

VMware Cloud Foundation: Deploy, Configure, Manage Training

Course Duration: 42 Hours

Course Code: VCF-DCM

1. Course Overview

The **VMware Cloud Foundation: Deploy, Configure, Manage** course provides comprehensive training on deploying and managing a full-stack hyperconverged infrastructure platform. This course covers software-defined compute, storage, networking, and lifecycle management using SDDC Manager, helping professionals build and operate private and hybrid cloud environments efficiently.

2. What You'll Learn

- Understand architecture and components of VMware Cloud Foundation (VCF)
- Deploy VMware Cloud Foundation using SDDC Manager
- Configure workload domains and resource pools
- Manage lifecycle operations (patching, upgrades, scaling)
- Integrate **VMware vSphere, VMware NSX, and VMware vSAN**
- Monitor and troubleshoot VCF environments
- Implement security and networking configurations
- Optimize performance and resource utilization

3. Target Audience

- Cloud Engineers
- System Administrators
- Data Center Engineers

- IT Infrastructure Managers
- VMware Administrators
- Professionals planning to work on hybrid cloud platforms

4. Pre-Requisites

- Basic knowledge of virtualization concepts
- Experience with **VMware vSphere**
- Understanding of networking and storage fundamentals
- Familiarity with data center operations
- Basic knowledge of cloud computing concepts

5. Course Content

Module 1: Introduction to VMware Cloud Foundation

- Overview of VCF architecture
- Key components and benefits

Module 2: VCF Architecture and Components

- SDDC Manager
- Workload domains
- Cloud Builder tool

Module 3: Deployment of VMware Cloud Foundation

- Planning and prerequisites
- Automated deployment using Cloud Builder
- Initial configuration

Module 4: Workload Domain Management

- Creating and managing domains

- Expanding clusters and hosts

Module 5: Networking with NSX

- NSX integration in VCF
- Logical switching and routing
- Security policies

Module 6: Storage with vSAN

- vSAN configuration and policies
- Storage management and optimization

Module 7: Lifecycle Management

- Patching and upgrades
- Backup and restore
- Scaling infrastructure

Module 8: Monitoring and Troubleshooting

- Logs and alerts
- Performance monitoring tools

Module 9: Security and Access Control

- Identity and access management
- Role-based access control (RBAC)