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# VMware Cloud Foundation Certification Training: Deploy, Manage, Configure

5 days (35 hours)

## Overview

VMware Cloud Foundation is a cloud infrastructure platform that enables you to deploy and manage a complete Software-Defined Data Center (SDDC). It natively integrates vSphere, NSX, and vSAN to deliver a modern, automated, and secure infrastructure.

Our VMware Cloud Foundation: Deploy, Manage, Configure training will enable you to master the deployment, management, and operation of a VMware Cloud Foundation platform.

You will learn to understand the overall architecture, plan and deploy a complete platform, configure and administer the infrastructure, and manage workloads and advanced services.

You will also be able to ensure the operation, maintenance, and lifecycle management of the environment in a production environment.

Upon completion of the training, the trainee will be able to master the deployment, management, and operation of VMware Cloud Foundation.

Finally, this training prepares you for the VMware Cloud Foundation Architect certification.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

## Objectives

- Understand the architecture and fundamentals of VMware Cloud Foundation

- Plan and deploy a VMware Cloud Foundation platform
- Configure and manage the infrastructure
- Deploy and manage advanced workloads and services
- Ensure operations, maintenance, and lifecycle management
- Be prepared to take the VMware Cloud Foundation Architect certification exam

## Target Audience

- System architects and administrators

## Prerequisites

- Equivalent knowledge and experience with VMware vSphere, NSX, and vSAN solutions

## Technical prerequisites

- A workstation with Internet access and a modern web browser
- A VMware Cloud Foundation environment accessible for hands-on exercises
- Access to the vSphere, NSX, and vSAN components of the platform
- Access to SDDC Manager, vCenter Server, and ESXi hosts
- Sufficient permissions to configure, administer, and monitor the infrastructure and workloads
- Access to administration, monitoring, and maintenance tools for deployment, management, and lifecycle

## VMware Cloud Foundation Training Program: Deploy, Manage, Configure

[Day 1 - Morning]

### VMware Cloud Foundation Architecture and Fundamentals

- Understanding the Architecture and Fundamentals of VMware Cloud Foundation
- Overview of components: vSphere, NSX, vSAN, SDDC Manager
- Software-Defined Data Center (SDDC) Concept
- Management domains and workload domains
- Use Cases and VCF Positioning
- Hands-on workshop: Exploring a VMware Cloud Foundation architecture.

[Day 1 - Afternoon]

### Deployment Planning and Preparation

- Planning and deploying a VMware Cloud Foundation platform
- Hardware and software prerequisites
- Network design and IP addressing
- Preparing ESXi hosts and vSAN storage
- VCF design best practices
- Hands-on lab: Complete preparation of a VCF environment.

## Deploying VMware Cloud Foundation

- Deploying VMware Cloud Foundation with SDDC Manager
- Configuring the management domain
- Integrating vSphere, NSX, and vSAN Components
- Validating the deployment and checking health
- Initial Access and Initial Configuration
- Hands-on Lab: Deploying a Complete VCF Environment.

### [Day 2 - Morning]

## Infrastructure configuration and administration

- Configuring and managing the VMware Cloud Foundation infrastructure
- Managing domains and clusters
- Administration of compute, network, and storage resources
- Managing access and permissions
- Overall Infrastructure Monitoring
- Hands-on workshop: Day-to-day administration of a VCF environment.

### [Day 2 - Afternoon]

## Deployment and management of workloads

- Deploying and managing workloads
- Creating and managing workload domains
- Allocating resources to environments
- Optimizing workload performance
- Multi-environment use cases
- Hands-on workshop: Deploying a workload domain.

## Networking and security with NSX

- Network configuration with NSX
- Segmentation and micro-segmentation
- Securing workloads
- Network policy management
- Security best practices

- Hands-on workshop: Network configuration and security in VCF.

## [Day 3 - Morning]

### Storage and Performance with vSAN

- Managing vSAN Storage in VMware Cloud Foundation
- Optimizing Performance and Capacity
- Managing storage policies
- Storage Monitoring
- Resilience and High Availability
- Hands-on Workshop: Optimizing a vSAN Cluster.

## [Day 3 - Afternoon]

### Performance Monitoring and Analysis

- Monitoring platform performance
- CPU, memory, network, and storage analysis
- Using monitoring tools
- Identifying bottlenecks
- Continuous optimization
- Hands-on workshop: VCF performance analysis.

### Incident management and troubleshooting

- Diagnosing VMware Cloud Foundation incidents
- Log and event analysis
- Resolving common issues
- Troubleshooting methodology
- Operational best practices
- Hands-on Workshop: VCF Incident Resolution.

## [Day 4 - Morning]

### Platform operation and maintenance

- Ensuring the operation of VMware Cloud Foundation
- Managing daily operations
- Component maintenance
- Monitoring Availability
- Performance management
- Hands-on workshop: VCF maintenance operations.

## [Day 4 - Afternoon]

## Lifecycle management

- Ensuring maintenance and lifecycle management
- Updates via SDDC Manager
- Component version management
- Upgrade Automation
- Lifecycle best practices
- Hands-on workshop: Updating a VCF environment.

## Security and Governance

- Securing the VMware Cloud Foundation platform
- Access and identity management
- Audit and compliance
- Governance best practices
- Workload Protection
- Hands-on Workshop: VCF Security Audit.

[Day 5 - Morning]

## Advanced Automation and Optimization

- Automation of administrative operations
- Optimizing Overall Performance
- Industrialization of deployments
- Managing large-scale environments
- DevOps best practices
- Hands-on workshop: VCF task automation.

[Day 5 - Afternoon]

## Summary and certification preparation

- Review of VMware Cloud Foundation fundamentals
- Validation of key skills
- Preparation for the VMware Cloud Foundation Architect certification
- Methodological tips for the exam
- Final assessment of learning outcomes
- Hands-on workshop: Mock exam and review.

## Target Audience

This training is intended for both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology or to

acquire specific professional knowledge or modern methods.

## Placement upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals regarding the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

## Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training program.