VMware Cloud Foundation: Solution Architecture and Design

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This five day course explores the architecture and design considerations for an initial deployment of VMware Cloud Foundation (VCF). The course explains the architecture framework and language, as well as design considerations for building, operationalizing, and consuming a VMware Cloud Foundation deployment. The scope of the course is centered on the core design considerations applicable to a VMware Cloud Foundation deployment in a single site.

About This Course

- Course Introduction
- Architecture Frameworks and Models
- VMware Cloud Foundation Overview
- VCF Fleet and Instance Design
- Building the Physical Fabric and VCF Networking Design
- Storage and vSAN Essentials
- Management Domain
- Workload Domains
- VCF AMPRS Considerations Summary
- VCF Consumption Design with VCF Automation and Supervisor
- Day 2 Operations with VCF
- VCF Upgrade Considerations
- VCF Advanced Services

Who Should Attend

Technical and Solution Architects and Consultants who design enterprise-grade private cloud environments

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

- Describe and apply an appropriate design framework.
- Apply a design process for gathering requirements, constraints, assumptions and risks.
- Understand VMware VCF constructs such as site, fleet and instance.
- Understand data center fabric needs to support VCF.
- Understand VCF storage and network design options.
- Design a single site single fleet deployment of VCF with recommended design options.
- Design management and workload domains with appropriate compute and storage resources.
- Design a consumption layer leveraging VCF Automation and Supervisor.
- Understand the day-2 operating model, operations metrics, and reporting needs of VCF.
- Understand future opportunities to extend the VCF platform with advanced services.

Detailed Course Outline

Course Introduction

- Introduction and course logistics
- Course Objectives

Architecture Frameworks and Models

- Architecture Frameworks
- Business Objectives
- Design Models

VMware Cloud Foundation Overview

- VCF Design Blueprints and Use Cases
- Upgrade Overview
- License Management Overview

VCF Fleet and Instance Design

- Sites, Fleets and Instances
- Management and Workload Domains
- Designing Conceptual and Logical Designs
- VCF Operations Platform Design

Building the Physical Fabric and VCF Networking Design

- Networking Fabric Design
- VCF Networking Design

Storage and vSAN Essentials

- VCF Storage Overview
- Storage Design Considerations

Management Domain

- Management Domain Design Overview
- Management Domain Design Sizing Considerations
- Management Domain Design Decisions
- Storage Requirements for Management Workloads
- Networking Requirements for Management Workloads
- Platform-Based Protection Mechanisms

Workload Domains

- Workload Domain Design Overview
- Cluster Design Overview
- Storage Requirement for Workload Domains
- Networking Requirements for Workload Domains
- Security Design Considerations

VCF AMPRS Considerations Summary

- Designing for Availability
- Designing for Manageability
- Designing for Performance
- Designing for Recoverability
- Designing for Security

VCF Consumption Design with VCF Automation and Supervisor

- VCF Automation Overview
- VCF Automation Tenancy Models
- VCF Automation and Supervisor Components
- VCF Automation and Supervisor Design Considerations

Day 2 Operations with VCF

- Day 2 Operations Overview
- VCF Operations Overview and Metric/Dashboard Design
- VCF Operations Key Metrics for Compute, Storage and Networks
- VCF Operations for Networks Overview and Design

VCF Upgrade Considerations

- VCF Upgrade Overview
- VCF Upgrade Key Considerations

VCF Advanced Services

- Introduction to Private AI
- Introduction to VMware Live Recovery
- Introduction to Advanced Security

Skills You Will Learn:

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

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Frequently Asked Questions

Q: What delivery options are available for VMware Cloud Foundation: Solution Architecture and Design?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day VMware Cloud Foundation: Solution Architecture and Design course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware Cloud Foundation: Solution Architecture and Design training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware Cloud Foundation: Solution Architecture and Design?

Yes, we provide corporate training, dedicated training, and closed classes for VMware Cloud Foundation: Solution Architecture and Design. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware Cloud Foundation: Solution Architecture and Design, VMware VCF and VMware Cloud Director, VCFSAD

Q: Why choose Nexus Human for VMware Cloud Foundation: Solution Architecture and Design?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware Cloud Foundation: Solution Architecture and Design training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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