

Updated on 09/23/2026

[Sign Up](#)

VMware VCF VCAP Automation Certification Training

5 days (35 hours)

Overview

Our 5-day VMware VCF VCAP Automation Certification training course will enable you to master the advanced administration and automation of a private cloud using VMware Cloud Foundation and prepare for the 3V0-21.25 exam.

VMware Cloud Foundation Automation enables the standardization and automation of infrastructure resource provisioning. The platform provides cloud teams with the capabilities needed to manage provisioning, governance, and organizations, and to offer self-service capabilities to users.

During this course, you will learn how to administer Providers, Organizations, Regions, and Cloud Zones, as well as manage identities, permissions, certificates, quotas, and governance policies. You will also be able to configure network resources and VPCs to precisely control the deployment of workloads.

You'll learn how to design blueprints, automate provisioning using Infrastructure as Code principles, and build a self-service catalog tailored to your organization's needs. The course also covers APIs, orchestration, and Day 2 operations to streamline the resource lifecycle.

Upon completion of this course, you will be able to administer, govern, and troubleshoot an advanced VCF Automation environment. You will also have the knowledge needed to prepare for the VMware Certified Advanced Professional – VMware Cloud Foundation Automation certification and its 3V0-21.25 exam.

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

Objectives

- Prepare for the 3V0-21.25 exam for the VMware VCF VCAP Automation certification
- Administer Providers, Organizations, Regions, and Cloud Zones
- Implement governance policies, quotas, identities, and access controls
- Automate provisioning using Blueprints and Infrastructure as Code
- Build and manage a self-service catalog
- Utilize VCF Automation APIs, orchestration, and troubleshooting tools

Target Audience

- VMware Cloud Foundation Administrators
- Cloud Administrators
- Cloud engineers
- Platform Engineers
- Infrastructure and Cloud Architects
- Professionals preparing for the VCAP-VCF Automation certification

Prerequisites

- Hands-on experience administering VMware and VMware Cloud Foundation environments
- Strong understanding of virtualization, networking, and storage concepts
- Knowledge of private cloud and infrastructure automation principles
- Basic understanding of Infrastructure as Code, APIs, and orchestration is recommended
- Significant experience administering VMware infrastructures is recommended given the Advanced Professional level of the certification

Course Outline for Our VMware VCF VCAP Automation Certification Training

[Day 1 - Morning]

Understanding the VMware Cloud Foundation Automation Architecture

- Positioning VCF Automation within the VMware Cloud Foundation architecture
- Identify the components, services, and dependencies required for private cloud automation
- Understand the roles of Providers, Organizations, Regions, and Cloud Zones
- Analyze the flows between VCF components and the resources made available to users
- Identify architecture options based on availability, isolation, and consumption requirements
- Hands-on workshop: Analyze a VCF Automation architecture and map its components, dependencies, and workflows.

[Day 1 - Afternoon]

Configure Providers, Organizations, and Cloud Zones

- Configure and manage the Providers required to make infrastructure available
- Create and organize Organizations based on teams, projects, and business needs
- Configure Regions and Cloud Zones to control workload placement
- Define the capacities, constraints, and rules that guide provisioning
- Design a multi-tenant architecture suited to an enterprise cloud platform
- Hands-on workshop: Configure an Organization, its resources, and its Cloud Zones, then validate the placement of a workload.

[Day 2 - Morning]

Manage identities, access, and certificates

- Understand the VCF Automation identity architecture and its integration with VMware Cloud Foundation
- Configure identity providers and authentication mechanisms
- Manage users, groups, roles, and permissions according to the principle of least privilege
- Manage access to Organizations and provisioned resources
- Configure and maintain the certificates required for secure communications
- Hands-on Workshop: Configure access to an Organization and implement a permissions policy tailored to multiple user profiles.

[Day 2 - Afternoon]

Implement governance, quotas, and policies

- Understand the governance mechanisms applicable to cloud resources
- Define quotas and consumption limits to control infrastructure usage
- Configure the policies required for resource placement and lifecycle management
- Use constraints and capacities to standardize deployments
- Design a governance model that balances user autonomy, resource control, and compliance
- Hands-on workshop: Build a governance policy with quotas, constraints, and placement, then test its implementation.

[Day 3 - Morning]

Configure the network, VPCs, and infrastructure resources

- Understanding the network concepts used by VCF Automation for workload provisioning
- Configure the network resources and profiles required for automated deployments
- Understand and manage Virtual Private Clouds (VPCs) in consumption scenarios
- Associate network resources with Organizations, Regions, and Cloud Zones
- Diagnose connectivity, allocation, and configuration issues encountered during provisioning
- Hands-on workshop: Configure network resources and a VPC, then deploy a workload that complies with the defined constraints.

[Day 3 - Afternoon]

Design Blueprints and automate provisioning

- Understand the role of Blueprints in standardizing and automating deployments
- Define the resources, properties, variables, and dependencies of a provisioning template
- Use Infrastructure as Code principles to make deployments reproducible
- Incorporate compute, network, and storage constraints into deployment templates
- Version, test, and evolve the models used by cloud teams
- Hands-on workshop: Design and deploy a multi-resource Blueprint incorporating compute, networking, storage, and custom settings.

[Day 4 - Morning]

Build a self-service catalog and manage consumption

- Create and organize a service catalog for platform users
- Publish deployment templates and control their availability by organization
- Structure the self-service experience to simplify resource consumption
- Manage requests, permissions, quotas, and policies applicable to catalog items
- Manage Day 2 operations and the lifecycle of provisioned resources
- Hands-on workshop: Publish a service in the catalog, use it via self-service, and then perform Day 2 operations.

[Day 4 - Afternoon]

Extend VCF Automation with APIs and orchestration

- Understand the extensibility and orchestration mechanisms available in VCF Automation
- Leverage APIs to automate administration and consumption tasks
- Integrate VCF Automation with external tools and services
- Build workflows to extend the provisioning cycle and Day 2 operations
- Securing API access, credentials, and secrets used by automations
- Hands-on workshop: Automate an administrative operation using APIs and integrate a custom action into a VCF Automation workflow.

[Day 5 - Morning]

Administering and Troubleshooting VCF Automation in an Advanced Environment

- Adopt a structured methodology for troubleshooting services and deployments
- Analyze errors related to Providers, Organizations, Cloud Zones, networks, and policies
- Diagnose provisioning failures and issues encountered during Day 2 operations
- Use logs, events, and available information to isolate the cause of an incident

- Identify issues related to identities, certificates, permissions, quotas, and integrations
- Hands-on workshop: Diagnose multiple VCF Automation incidents and restore the affected services to full operation.

[Day 5 - Afternoon]

Prepare for the VMware VCF VCAP Automation certification

- Understand the role of the VMware Certified Advanced Professional – VMware Cloud Foundation Automation certification
- Review the expected domains and competencies for the 3V0-21.25 exam
- Review the administration of Providers, Organizations, Regions, Cloud Zones, VPCs, and consumption-based resources
- Consolidate knowledge of governance, identities, blueprints, the catalog, APIs, and orchestration
- Develop a time-management strategy tailored to the 135-minute exam
- Hands-on workshop: Take a VMware VCF VCAP Automation practice exam, analyze the results, and create a personalized study plan.

Target Audience

This training is intended for both individuals and companies—large or small—seeking to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Pre-training Assessment

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 level across various types of technologies, as well as their expectations and personal goals for 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

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired

of the skills.

Certification

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