# Advanced VMware Cloud Foundation 9 Automation (3V0-21.25)

## Exam Delivery

This is a proctored exam delivered through Pearson VUE. For more information, visit the Pearson VUE website.

## Certification Information

For details and a complete list of requirements and recommendations for attainment, visit the VMware Certification website.

## Exam Sections

VMware exam blueprint sections are now standardized to the five sections below, some of which may NOT be included in the final exam blueprint depending on the exam objectives.

- Section 1 – IT Architectures, Technologies, Standards
- Section 2 – VMware Cloud Foundation (VCF) Products and Solutions
- Section 3 – Plan and Design
- Section 4 – Deploy, Configure, and Operate
- Section 5 – Troubleshoot and Optimize

If a section does not have testable objectives in this version of the exam, it will be noted accordingly. The objective numbering may be referenced in your score report at the end of your testing event for further preparation should a retake of the exam be necessary.

## Exam Details

The 60-item scaled method exam requires a passing score of 300. The 135-minute appointment provides sufficient time for all candidates, including non-native English speakers.

**Exam Name**

Advanced VMware Cloud Foundation 9 Automation (3V0-21.25)

**Credential Name**

VMware Certified Advanced Professional - VMware Cloud Foundation Automation (VCAP-VCF Automation)

The exam measures the technical proficiency and applied skills required to manage the full lifecycle of automated workloads in a VCF environment. Candidates are evaluated on their ability to design and manage provider and organization-level configurations, enable consumption through blueprints and service catalogs, and maintain operational health using VCF Operations. This exam may contain a variety of item types including multiple-choice, multiple-selection multiple-choice, build-list, matching, drag-and-drop, point-and-click and hot-area. Additional item types may be used but will appear less frequently than those previously mentioned.

## Minimally Qualified Candidate

The minimally qualified candidate (MQC) can confidently design, configure, and administer complex VMware Cloud Foundation Automation (VCFA) environments within a VMware Cloud Foundation 9.0 deployment. The candidate demonstrates a strong understanding of VCFA's architecture, including its core components: Provider Management, All Apps and VM Apps Organisations, Regions, Cloud Zones, and Governance frameworks. The candidate can distinguish between tenancy deployment models, organisation types, and network architectures involving vSphere Supervisor and NSX integration.

The candidate can apply established design methodologies to plan and implement scalable automation services across multi-region or multi-organisation environments. The candidate has experience operating and troubleshooting VCFA's functional areas, including Provider

### Recommended Courses

- VMware Cloud Foundation Automation: Advanced Design
- VMware Cloud Foundation Automation: Advanced Configuration
- VMware Cloud Foundation Automation: Advanced Troubleshooting

### References*

In addition to the recommended courses, item writers use the following references for information when writing exam questions. It is recommended that you study the reference content as you prepare to take the exam, in addition to any recommended training.

**Products - The VMware Cloud Foundation 9**

- https://www.vmware.com/topics/private-cloud
- https://techdocs.broadcom.com
- https://www.broadcom.com/

*Content in this exam is based on VCF 9. Review all release notes and material for features and functions.

Management, Organisation Management, Consumption, Orchestration, and Operations Management. The candidate can configure Identity Providers, certificates, content libraries, quotas, VPCs, governance policies, and blueprints; and can deploy or manage resources through both UI and API-based workflows. They can monitor VCFA using VCF Operations and diagnose workflow or lifecycle automation issues.

The candidate has at least 5 years of general IT experience and can conduct research on advanced VCFA-related topics or troubleshoot as needed. They may collaborate with colleagues or consult Broadcom support when appropriate. The candidate possesses most of the knowledge outlined in the exam blueprint and is prepared to demonstrate competence across the defined exam sections.

## Sections Included in this Exam

| Section 1 - IT Architectures, Technologies, Standards |
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| NO TESTABLE OBJECTIVES THIS SECTION |

| Section 2 - VMware Cloud Foundation (VCF) Products and Solutions | |
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| Objective 2.1 - vSphere Supervisor | • Given a scenario, differentiate between the components within a vSphere Supervisor deployment/architecture<br>• Given a scenario, differentiate between the components within a supervisor-based NSX Network/architecture |

| Section 3 - Plan and Design | |
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| Objective 3.1 - Design | • Given a scenario, differentiate between VCFA Tenancy Deployment Models<br>• Given a scenario, identify the use case for different Organization Types (All Apps vs VM Apps)<br>• Given a scenario, differentiate between the functional components in VCFA (i.e. Regions, Cloud Zones, Quotas, Flavors, VM classes, images, extensibility) |

| Section 4 - Deploy, Configure, and Operate VMware Cloud Foundation (VCF) | |
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| Objective 4.1- Provider Management | • Given a scenario, configure the Provider Management portal<br>• Given a scenario, configure the Identity Provider for the Provider Management portal<br>• Given a scenario, create and manage Regions within the Provider Management portal<br>• Given a scenario, create and manage Provider Content Libraries within the Provider Management portal<br>• Given a scenario, configure rights bundles to provide Organization access to VCF Operations Orchestrator<br>• Given a scenario, configure and assign system-wide and global roles<br>• Given a scenario, configure VCF Data Services in the Provider Management portal<br>• Given a scenario, configure provider-level certificate management within the Provider Management portal.<br>• Given a scenario, configure Organization branding within the Provider Management Portal<br>• Given a scenario, create a new Organization within the Provider Management portal<br>• Given a scenario, enable and configure the Provider Consumption Organization (PCO)<br>• Given a scenario, delete an Organization from within the Provider Management Portal |

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| Objective 4.2 - Organization Management | • Given a scenario, configure Identity Providers within a VCF All Apps Organization<br>• Given a scenario, configure Access Control within a VCF All Apps Organization<br>• Given a scenario, manage (add/remove) an integration within a VCF All Apps Organization (Orchestrator and Git)<br>• Given a scenario, configure certificates and secrets within a VCF All Apps Organization<br>• Given a scenario, create and manage Projects within a VCF All Apps Organization<br>• Given a scenario, create and manage Governance Policies within a VCF All Apps Organization<br>• Given a scenario, create and manage a Namespace Class within a VCF All Apps Organization<br>• Given a scenario, create and manage VPCs and VPC connectivity profiles within a VCF All Apps Organization<br>• Given a scenario, create and manage Private Transit Gateway IP Blocks and IP Quotas within a VCF All Apps Organization |

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| Objective 4.3 - Consumption | • Given a scenario, create and manage an Organizational Content Library within a VCF All Apps Organization<br>• Given a scenario, upload and manage Images within a VCF All Apps Organization<br>• Given a scenario, create and manage Subscriptions within a VCF All Apps Organization<br>• Given a scenario, deploy different resource types within a VCF All Apps Organization<br>• Given a scenario, create a Custom Property Group<br>• Given a scenario, create a Custom Resource Action<br>• Given a scenario, create a Custom Resource<br>• Given a scenario, create and manage Blueprints to deploy resources or services<br>• Given a scenario, deploy resources using blueprints within the Service Catalog<br>• Given a scenario, make Day 2 changes to a deployment or resource using Day 2 Actions<br>• Given a scenario, deploy and configure VCF Operations Orchestrator for a VCF All Apps Organization<br>• Identify the components of a VCF Operations Orchestrator workflow<br>• Given a scenario, create a Workflow in VCF Operations Orchestrator<br>• Given a scenario, create an Action in VCF Operations Orchestrator<br>• Given a scenario, install and configure a VCF Operations Orchestrator Plug-in |

| **Section 5 - Troubleshoot and Optimize** | |
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| Objective 5.1 - Operation Management | • Given a scenario, monitor VCF Automation using VCF Operations<br>• Given a scenario, monitor VCF Automation Provider Management<br>• Given a scenario, monitor VCF Automation All Apps Organizations |

## Exam Content Contributors

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