

VMware Cloud Orchestration and Extensibility

Delivery Methods

- Classroom
- Live Online
- [Onsite](#)

Course Duration

- Five (5) extended days of instructor-led classroom training
- 50% lecture, 50% hands-on lab

Target Audience

- Experienced VMware administrators
- Automation and orchestration specialists
- System integrators
- Private cloud and public cloud administrators

Course Suitability

- | | |
|---|--|
| <input checked="" type="checkbox"/> Administrator | <input checked="" type="checkbox"/> Expert |
| <input checked="" type="checkbox"/> Engineer | <input checked="" type="checkbox"/> Advanced |
| <input type="checkbox"/> Architect | <input checked="" type="checkbox"/> Professional |
| | <input type="checkbox"/> Fundamentals |

Prerequisites

- Knowledge of VMware vSphere®
- vRealize Automation : Install, Configure, Manage course or equivalent knowledge
- Working knowledge of scripting or programming using JavaScript, Windows PowerShell, Perl, Java, Python, or similar languages

Pricing

Contact your VMware representative or a VMware Authorized Training for pricing information.

More Information

Courses are conveniently scheduled around the world. Go to [VMware Education](#) to find the class that is right for you.

Course Overview

This hands-on training course explores the use of VMware vRealize™ Orchestrator™ 5.5 and VMware vRealize® Automation™ for the automation of VMware cloud infrastructure and IT processes. The course focuses on extensibility and advanced administration through the use of vRealize Orchestrator workflows in vRealize Automation. Students will gain practical experience through the completion of hands-on labs.

To learn more about vRealize Orchestrator and vRealize Automation, go to www.vmware.com/education for other course options.

Course Objectives

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

- Describe the features, benefits, components, and integration of vRealize Orchestrator and vRealize Automation and the role of vRealize Orchestrator workflows and content elements in automation
- Use the vRealize Orchestrator client to access and navigate the vRealize Orchestrator platform and to import and run library vRealize Orchestrator workflows
- Design, develop, and run custom reusable vRealize Orchestrator workflows
- Use VMware APIs in vRealize Orchestrator workflow scripts
- Integrate vRealize Automation with vRealize Orchestrator instances to extend infrastructure-as-a-service (IaaS) machine lifecycle processes and enhance and deliver custom IT services
- Use the Advanced Service Designer in vRealize Automation to integrate vRealize Orchestrator workflows with external systems and build automation solutions
- Export, package, and apply version control to vRealize Orchestrator workflows
- Configure a vRealize Orchestrator environment for server availability using built-in clustering

Course Modules

1 Course Introduction <ul style="list-style-type: none"> Introduction and course logistics Course objectives 	8 Integrating vRealize Orchestrator with External Systems <ul style="list-style-type: none"> vRealize Orchestrator integration strategy vRealize Orchestrator plug-ins
2 Cloud Orchestration and Extensibility Overview <ul style="list-style-type: none"> Features, benefits, and components of vRealize Orchestrator and vRealize Automation vRealize Orchestrator and vRealize Automation integration, prerequisites, and deployment 	9 vRealize Automation IaaS Extensibility <ul style="list-style-type: none"> vRealize Automation IaaS extensibility overview vRealize Automation plug-in for vRealize Orchestrator vRealize Automation plug-in functionality
3 vRealize Orchestrator <ul style="list-style-type: none"> vRealize Orchestrator client vRealize Orchestrator content elements and vRealize Orchestrator inventory 	10 vRealize Automation XaaS <ul style="list-style-type: none"> Overview of vRealize Automation anything as a service (XaaS) Advanced Service Designer configuration Custom resources vRealize Automation XaaS blueprints
4 Using vRealize Orchestrator Workflow Components <ul style="list-style-type: none"> vRealize Orchestrator workflow elements Building and debugging vRealize Orchestrator workflows 	11 Enhanced IT Service Delivery <ul style="list-style-type: none"> IaaS and XaaS actions Advanced Service Designer input presentation Delivering a service solution
5 vRealize Orchestrator Workflow Development Concepts <ul style="list-style-type: none"> vRealize Orchestrator workflow editor UI vRealize Orchestrator workflow components Information flow in vRealize Orchestrator workflows and parameter binding 	12 Delivering vRealize Orchestrator Workflows <ul style="list-style-type: none"> Transferring vRealize Orchestrator content elements to other vRealize Orchestrator servers Synchronizing workflows among vRealize Orchestrator servers Exporting and packaging workflows
6 Developing Complex vRealize Orchestrator Workflows <ul style="list-style-type: none"> Advanced vRealize Orchestrator workflow elements Configuration and resource elements Exception handling and user interactions vRealize Orchestrator workflow input presentation 	13 Installing and Configuring vRealize Orchestrator <ul style="list-style-type: none"> Installing vRealize Orchestrator Configuring vRealize Orchestrator
7 Using VMware Infrastructure APIs with vRealize Orchestrator <ul style="list-style-type: none"> vSphere automation and developer tools VMware vRealize Server™ inventory structure 	14 vRealize Orchestrator Server Availability <ul style="list-style-type: none"> vRealize Orchestrator availability vRealize Orchestrator clusters Availability of vRealize Orchestrator workflows



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