



## TRAINING OFFERING

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# VMware vRealize Automation: Orchestration and Extensibility [V8.1]

CODE:	LENGTH:	PRICE:
VMW_VRAOE81	5 day(s)	£3,520.00

## Description

During this five-day course, you focus on using VMware vRealize® Orchestrator™ to extend the functionality of VMware vRealize® Automation™. You learn how to provide XaaS (Anything as a Service) and implement Machine Lifecycle Extensibility using the VMware vRealize® Automation™ Event Broker. You also learn how to create vRealize Orchestrator workflows. Features covered in the course include basic scripting implementation along with logic processing to implement a variety of functions to use in your environment. This course teaches implementing debugging, loops, conditions, and user interactions in vRealize Orchestrator. The course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give the groundwork to implement a variety of plugins and scripts. This course is designed to give you the tools to craft custom solutions in the product.

## Objectives

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

- Describe the features and benefits of integrating vRealize Orchestrator and vRealize Automation
- Describe the role of vRealize Orchestrator workflows and content elements in automation
- Use the vRealize Orchestrator client to access and navigate the vRealize Orchestrator platform
- Use the vRealize Orchestrator client to import and run vRealize Orchestrator library workflows
- Design, develop, and run custom reusable vRealize Orchestrator workflows
- Integrate vRealize Automation with vRealize Orchestrator to deliver custom IT services
- Use the vRealize Automation event broker service to trigger specific vRealize Orchestrator workflows
- Leverage the event broker to extend IaaS (Infrastructure-as-a-service) machine life cycle processes
- Use XaaS to extend vRealize Automation into other enterprise systems
- Use VMware APIs to run vRealize Orchestrator workflows

## Audience

Experienced VMware administrators, automation and orchestration specialists, system integrators, and private cloud and public cloud administrators

## Prerequisites

This course requires the following prerequisites: • Knowledge of VMware vSphere • VMware vRealize Automation: Install, Configure, Manage [V8.x] course or equivalent knowledge

- Working knowledge of scripting or programming using JavaScript, Windows PowerShell, Perl, Java, Python, or similar languages.

All code is provided during class.

## Programme

- 1 Course Introduction • Introductions and course logistics • Course objectives
- 2 Overview of vRealize Automation and vRealize Orchestrator • Define the purpose of vRealize Automation
  - Outline the purpose of vRealize Orchestrator
  - Describe the main components of vRealize Automation
  - Describe the main components of vRealize Orchestrator
- 3 Invoking vRealize Orchestrator Schema Elements
  - Invoke JavaScript from a vRealize Orchestrator Workflow
  - Invoke a vRealize Orchestrator Workflow from a vRealize Orchestrator Workflow
  - Invoke an action from a vRealize Orchestrator Workflow

- Using vRealize Orchestrator workflows both synchronously and asynchronously
- 4 Working with Variables in vRealize Orchestrator • Defining inputs, outputs, and variables in vRealize Orchestrator workflows
- Binding variables in vRealize Orchestrator workflows • Wrapping vRealize Orchestrator workflows
- Using APIs and the API Explorer • Creating actions in vRealize Orchestrator • Using vRealize Orchestrator input forms
- Handling user interactions in vRealize Orchestrator 5 Handling Exceptions, Logging, and Debugging in vRealize Orchestrator
- Handling exceptions in vRealize Orchestrator workflows • Using logs in vRealize Orchestrator workflows
- Debugging vRealize Orchestrator workflows 6 Branching and Looping in vRealize Orchestrator
- Using branching in vRealize Orchestrator workflows • Using loops in vRealize Orchestrator workflows
- 7 Working with Assets in vRealize Orchestrator • Using user configurations in vRealize Orchestrator
- Using resources in vRealize Orchestrator • Using packages in vRealize Orchestrator
- 8 Working with Plug-Ins in vRealize Orchestrator • Downloading and installing Plug-Ins
- Using the SSH plug-in in vRealize Orchestrator • Using the REST plug-in in vRealize Orchestrator
- Using the SOAP plug-in in vRealize Orchestrator • Using the PowerShell plug-in in vRealize Orchestrator
- 9 Working with Versioning and Git in vRealize Orchestrator • Using versioning in vRealize Orchestrator
- Using Git in vRealize Orchestrator 10 Scheduling, Sleeping, and Waiting in vRealize Orchestrator
- Using scheduling in vRealize Orchestrator • Using sleeping in vRealize Orchestrator • Using waiting in vRealize Orchestrator
- 11 Introduction to vRealize Automation Extensibility • Introduction to extensibility • Using ABX actions • Using Python
- Using Nodejs • Using PowerShell • Using the vRealize Automation Lifecycle • Introduction to XaaS
- 12 Extending vRealize Automation with Event Broker • Overview of vRealize Automation Event Broker
- Creating vRealize Automation subscriptions • Data exchange between vRealize Automation and vRealize Orchestrator
- 13 Implementing Anything as a Service (XaaS) in vRealize Automation • Overview of XaaS
- Using Day-2 actions in vRealize Automation

## Session Dates

On request. Please [contact us](#)

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)