VMware vCenter Configuration Manager for Virtual Infrastructure and OS Management

Delivery Methods
- Instructor-led
- Live-online

Course Duration
- Five (5) days of instructor-led classroom training
- 60% lecture, 40% hands-on lab

Target Audience
- Virtual infrastructure administrator
- IT managers

Course Suitability
☒ Administrator
☐ Expert
☒ Engineer
☐ Advanced
☒ Architect
☒ Professional
☐ Fundamentals

Prerequisites
- Experience in performing basic administration tasks on VMware ESXi™ hosts, VMware® vCenter Server™, VMware vCloud Director®, VMware® vShield™, and virtual machines
- System administration experience in a Windows, Linux, or Solaris environment

Course Overview
This hands-on training course builds your skills with VMware® vCenter Configuration Manager™. It provides you with the knowledge and skills to install and configure vCenter Configuration Manager, navigate the user interface, manage compliance, and perform administrative and configuration tasks against your physical and virtual infrastructure. You learn how to manage Active Directory (AD), create and use compliance templates, use vCenter Configuration Manager for patching, deploy operating systems and Windows software applications, and use vCenter Configuration Manager tools to download, import, and export compliance templates, and view and collect debug information.

Course Objectives
By the end of the course, you should be able to do the following:
- Understand the position of vCenter Configuration Manager in the VMware® management solution set.
- Recognize the role of vCenter Configuration Manager in enterprise configuration and change and compliance management.
- Use the vCenter Configuration Manager console to configure vCenter Configuration Manager for management of VMware® vSphere® systems.
- Use the vCenter Configuration Manager console to configure vCenter Configuration Manager for physical and guest operating system management.
- Navigate the vCenter Configuration Manager console.
- Collect data from vSphere systems from the vCenter Configuration Manager console.
- Manage vSphere system compliance with vCenter Configuration Manager.
- Generate reports in vCenter Configuration Manager.
- Create custom reports in the vCenter Configuration Manager console.
- Perform vCenter Configuration Manager administration tasks to manage vCenter Configuration Manager setup and collection of data, user access, jobs, and alerts.
- Discuss the installation options for vCenter Configuration Manager and perform a basic installation.
- Use vCenter Configuration Manager Patching to patch physical and guest operating systems.
- Configure and use an operating system provisioning server to provision Windows and Linux operating systems.
- Provision software applications on Windows machines.
- Identify changes in the VMware® vCenter™ Operations Management Suite™ including new products and packaging in a high-level overview.
- Articulate the use case for the new integration with VMware® vCenter™ Operations Manager™ to maintain a compliant infrastructure.
- Learn about the improvements in change log and report management.

Pricing
Contact your VMware representative or a VMware® Authorized Training Center™ for pricing information.

More Information
Courses are conveniently scheduled around the world. Go to http://www.vmware.com/education to find the class that is right for you.

Onsite training is also available for customers who prefer to bring a VMware Certified Instructor to their own facilities. For additional information about onsite classes, including facility requirements, go to http://www.vmware.com/education.
# Course Modules

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<th>Module</th>
<th>Description</th>
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| **1** Course Introduction |  - Introductions and course logistics  
  - Course objectives  
  - vCenter Configuration Manager overview |
| **2** Configuration, Compliance, and Change Management |  - Provide a high-level overview of vCenter Configuration Manager and its position in the VMware management solution set  
  - Discuss some of the common challenges customers face in IT configuration, compliance, and change management  
  - Describe the key features of vCenter Configuration Manager and how they benefit IT departments managing configuration, compliance, and change |
| **3** Components and Processes |  - Understand the system architecture  
  - Describe and discuss the CARMA concept  
  - Describe the database  
  - Describe the collector  
  - Describe the processes |
| **4** Configuration for Virtual Infrastructure Systems |  - Identify and use vCenter Configuration Manager user interface components  
  - Describe and configure management agents  
  - Add and configure settings for vCenter Server, vCloud Director, and vShield systems  
  - License vSphere systems  
  - Collect data from vSphere systems  
  - Manage certificates  
  - Set up an alternative Managing Agent machine |
| **5** Basic Administration and Machines Manager |  - Manage UNIX/Linux machines  
  - Work with ignored machines and machine snapshots  
  - Work with machine collection status and the machine collection log  
  - Work with machine groups |
| **6** Using the Upper Console |  - View dashboards  
  - View and manage alerts  
  - Use change management in the virtual infrastructure  
  - Use the Virtual Infrastructure node |
| **7** Using the Upper Console on Physical and Guest OS Machines |  - Dashboards  
  - Change management (for physical or guest operating system)  
  - Windows and UNIX remote commands  
  - Overview of enterprise applications |
| **8** Using the Lower Console on Physical and Guest OS Machines |  - Operating System node and subnodes  
  - Security node and subnodes  
  - Directory Services node and subnodes |
| **9** VMware vSphere System Compliance Management |  - Describe compliance analysis  
  - Create a rule group  
  - Create a rule group filter  
  - Create a rule group compliance condition  
  - Create and run a compliance template |
| **10** Active Directory Management |  - Configure vCenter Configuration Manager for AD collections  
  - Collect and analyze AD data  
  - Work with AD compliance |
| **11** Working with Reports |  - List vSphere system–related reports available in vCenter Configuration Manager  
  - Generate custom reports with the Report wizard  
  - Manage reports |
| **12** Basic Settings and Configuration |  - Work with general settings  
  - Configure settings for integration with vCenter Operations Manager and the vCenter Configuration Manager plug-in in VMware vSphere® Client™  
  - Configure virtualization settings |
**Basic Settings and Configuration for Physical and Guest OS Machines**
- Work with general settings
- Work with Asset Extension settings
- Configure UNIX settings
- Configure AD settings
- Configure Windows settings
- Configure with vCenter Configuration Manager for AD
- Configure for network authorities

**Operating System Provisioning**
- Describe collection filters
- Create collection filters
- Create collection filter sets and collection filter set groups

**Creating Collection Filters**
- Describe collection filters
- Create collection filters
- Create collection filter sets and collection filter set groups

**Software Provisioning**
- Describe software provisioning components and their relationship to one another
- Build software packages with Package Studio
- Configure a software repository
- Configure Package Manager
- Create a software package and provision it with vCenter Configuration Manager

**User and Role Management**
- Discuss how vCenter Configuration Manager access is controlled by access rules and roles
- Create access rules and use them in a role
- Manage access rules and roles
- Add and manage vCenter Configuration Manager logins

**Using the Content Wizard**
- Describe the Content wizard
- Import and use imported templates

**Job Management**
- Describe the function of Job Manager
- View a running job
- Add a job
- Schedule a job
- Edit a job

**Using the Import/Export Utility**
- Describe the Import/Export utility
- Discuss where the Import/Export utility is used

**Alert Management**
- Add an alert rule
- Discuss and enter alert configuration

**Using the Debug Event Viewer**
- Discuss how the Debug Event Viewer works
- Describe how to filter events

**Patching for Physical and Guest OS Machines**
- Describe the vCenter Configuration Manager patching process
- Access patching requirements for a machine group
- Patch Windows machines
- Patch to UNIX/Linux machines

**Installing VMware vCenter Configuration Manager**
- Prerequisites
- Architecture (single-tier or multitier)
- Installation
- Understanding and meeting preinstallation requirements
- Installing vCenter Operations Manager
- Configuring vCenter Configuration Manager to gather data from its environment
# VMware vCenter Configuration Manager for Virtual Infrastructure and OS Management

## A VMware vCenter Operations Management Suite Update
- Discuss the VMware management suite solution and products
- List the key components and capabilities of the vCenter Operations Management Suite
- Describe the main features available in each of the vCenter Operations Management Suite products and editions

## B VMware vCenter Configuration Manager v5.6 Changes
- Discuss changes in configuration of machine groups
- Identify new features in managing changes and compliance in the virtual infrastructure
- Improvements in internationalization of vCenter Configuration Manager
- Generate new reports for the virtual infrastructure

## C Integration with Other Products
- Identify use cases for integration of additional vCenter Operations Management Suite products
- Discuss integration with vCenter Operations Manager for group management
- Learn about new dashboard badges in vCenter Operations Manager