

## VMware vCloud Director 5.5

### Course Overview

This course demonstrates to technical personnel how to deploy and manage the ongoing operation of VMware® vCloud Director® for a small private cloud environment. This course focuses on the private cloud in an engineering or quality assurance solution. It covers all of the fundamentals needed to install, configure, and manage any small private cloud with vCloud Director.

This course is the prerequisite for other courses that cover more advanced vCloud Director configurations in enterprise deployments.

### Course Objectives

After completing this course, you should understand the features and operation of vCloud Director and be able to do the following:

- Deploy vCloud Director
- Manage vCloud Director to satisfy small private cloud business needs
- Configure VMware vSphere® storage to enable multiple tiers in provider virtual data centers
- Create and manage vCloud Director organizations and VMware vSphere® vApps™ to satisfy business needs
- Create and manage vCloud Director catalogs
- Configure networking for organizations and vApps
- Create an interface between vCloud Director and Microsoft Active Directory servers
- Understand the interactions between VMware vSphere® Distributed Resource Scheduler™ clusters and vCloud Director

## Course Modules

<p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>Review course goals</li> <li>Review course objectives</li> <li>Review the course outline</li> <li>Recognize vCloud Director Essentials/Fundamentals course elements</li> </ul>	<p><b>7 Managing Cloud Resources</b></p> <ul style="list-style-type: none"> <li>Understand and identify how vSphere fulfills vCloud Director requests</li> <li>Manage provider and organization virtual data centers</li> </ul>
<p><b>2 VMware vCloud Director Architecture and Components</b></p> <ul style="list-style-type: none"> <li>Describe how VMware products use the cloud computing approach</li> <li>Review vCloud Director components and explain their functions</li> <li>Examine integration with other VMware products such as VMware® vCenter™ Chargeback™ and VMware® vCenter™ Operations Manager™</li> <li>Determine the licensing needs</li> </ul>	<p><b>8 Managing VMware vSphere Resources</b></p> <ul style="list-style-type: none"> <li>Manage VMware® vCenter Server™ instances</li> <li>Manage VMware® ESXi™ hosts</li> <li>Manage vSphere datastores</li> <li>Manage stranded items</li> <li>Configure and manage resource pools at the vSphere level</li> </ul>
<p><b>3 VMware vCloud Networking</b></p> <ul style="list-style-type: none"> <li>Describe the network types available in vCloud Director</li> <li>Discuss the organization and vApp network traffic choices</li> <li>Describe the function of network pools</li> <li>Explain how to share content between organizations and vApps</li> </ul>	<p><b>9 Monitoring VMware vCloud Components</b></p> <ul style="list-style-type: none"> <li>Monitor usage information at provider and organization virtual data centers</li> <li>Analyze vCloud Director logs to monitor vCloud Director cells</li> </ul>
<p><b>4 VMware vCloud Providers</b></p> <ul style="list-style-type: none"> <li>Identify storage resources for vCloud Director</li> <li>Configure and manage storage for providers</li> <li>Examine provider space allocation to an organization</li> <li>Recognize VMware vSphere® Storage vMotion® issues</li> <li>Manage storage requirements for linked clones and shadow virtual machines</li> </ul>	<p><b>10 Organization Users</b></p> <ul style="list-style-type: none"> <li>Describe the catalog tasks available to organization users of various roles</li> <li>Describe the vApp tasks available to organization users in various roles</li> </ul>
<p><b>5 VMware vCloud Director Organizations</b></p> <ul style="list-style-type: none"> <li>Create and manage organizations</li> <li>Recognize resource allocations for an organization</li> <li>Create and manage catalogs</li> </ul>	<p><b>11 VMware vCloud Director Installation</b></p> <ul style="list-style-type: none"> <li>Describe the required prerequisites for a vCloud Director installation</li> <li>Install vCloud Director</li> </ul>
<p><b>6 Basic Security</b></p> <ul style="list-style-type: none"> <li>Describe role-based access</li> <li>Create custom security roles</li> <li>Describe and configure LDAP integration with Microsoft Active Directory</li> <li>Describe single sign-on</li> </ul>	