

# VMware vSphere: Fast Track

## Delivery Methods

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

## Course Duration

- Five (5) extended days of instructor-led classroom training (10-hour days)
- 55% lecture, 45% hands-on lab

## Target Audience

New and experienced system administrators, systems engineers, and system integrators seeking superior vSphere skills with minimal time away from the office

## Course Suitability

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

## Prerequisites

- System administration experience on Microsoft Windows or Linux operating systems
- Understanding of concepts presented in the [VMware Data Center Virtualization Fundamentals](#) course or [VCA-DCV certification](#)

## Certification

Aligns with the [vSphere Foundations Exam](#) (exam 2V0-620)

For more information, go to [VMware Certification](#).

## 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 [VMware Education](#) to find the class that is right for you.



## Course Overview

This intensive, extended-hours course combines instructor training with hands-on labs to focus on how to install, configure, manage, and troubleshoot VMware vSphere® 6, including VMware ESXi™ 6 and VMware vCenter Server™ 6. This course combines the content of the VMware vSphere: Install, Configure, Manage course with training in the troubleshooting skills needed for maintaining highly available and scalable vSphere environments. Students gain practical experience with these concepts through the completion of hands-on labs.

Completion of this course satisfies the course requirement for the VMware Certified Professional 6 - Data Center Virtualization (VCP6-DCV) certification.

Students who complete this course can enroll in more advanced vSphere courses. For advanced course options, go to [www.vmware.com/education](http://www.vmware.com/education).

## Course Objectives

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

- Deploy an ESXi host and create virtual machines
- Deploy a vCenter Server instance or VMware vCenter™ Server Appliance™
- Configure and manage the vSphere infrastructure with VMware vSphere® Client™ and VMware vSphere® Web Client
- Configure vSphere standard and distributed switches
- Describe and use a content library
- Migrate virtual machines and storage with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Use VMware vRealize™ Operations Manager™ to identify and solve issues through analytics and alerts
- Manage VMware vSphere® High Availability and VMware vSphere® Fault Tolerance
- Use VMware vSphere® Replication™ and VMware vSphere® Data Protection™ to replicate virtual machines and perform data recovery
- Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
- Use VMware vSphere® Update Manager™ to apply patches
- Perform basic troubleshooting of ESXi hosts, virtual machines, vCenter Server, virtual networking, virtual storage, and other vSphere operations

## Course Modules

<p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>• Introductions and course logistics</li> <li>• Course objectives</li> </ul>	<p><b>7 Configuring and Managing Virtual Storage</b></p> <ul style="list-style-type: none"> <li>• Introduce storage protocols and device names</li> <li>• Configure ESXi with iSCSI, NFS, and Fibre Channel storage</li> <li>• Create and manage VMware vSphere® VMFS datastores</li> <li>• Introduce VMware Virtual SAN™ datastores</li> <li>• Troubleshoot virtual storage</li> </ul>
<p><b>2 Software-Defined Data Center</b></p> <ul style="list-style-type: none"> <li>• Introduce virtualization and vSphere components</li> <li>• Explain the concepts of server, network, and storage virtualization</li> <li>• Describe where vSphere fits into the cloud architecture</li> <li>• Install and use vSphere user interfaces</li> <li>• Describe the ESXi architecture and configure various ESXi settings</li> </ul>	<p><b>8 Virtual Machine Management</b></p> <ul style="list-style-type: none"> <li>• Use templates and cloning to deploy virtual machines</li> <li>• Modify and manage virtual machines</li> <li>• Create and manage virtual machine snapshots</li> <li>• Perform vSphere vMotion and vSphere Storage vMotion migrations</li> <li>• Create vApps</li> <li>• Describe the types of content libraries</li> <li>• Troubleshoot virtual machines and snapshots</li> </ul>
<p><b>3 Creating Virtual Machines</b></p> <ul style="list-style-type: none"> <li>• Introduce virtual machines, virtual machine hardware, and virtual machine files</li> <li>• Deploy a single virtual machine</li> <li>• Explain the importance of VMware Tools™</li> <li>• Describe how to import an OVF template</li> </ul>	<p><b>9 Resource Management and Monitoring</b></p> <ul style="list-style-type: none"> <li>• Introduce virtual CPU and memory concepts</li> <li>• Describe methods for optimizing CPU and memory usage</li> <li>• Configure and manage resource pools</li> <li>• Use vCenter Server performance graphs and alarms to monitor resource usage</li> <li>• Use vRealize Operations Manager to manage a software-defined data center</li> </ul>
<p><b>4 vCenter Server</b></p> <ul style="list-style-type: none"> <li>• Introduce vCenter Server architecture</li> <li>• Introduce vCenter Server Appliance</li> <li>• Install and configure vCenter Server Appliance</li> <li>• Use vSphere Web Client</li> <li>• Configure VMware vCenter™ Single Sign-On™ and VMware Platform Services Controller™</li> <li>• Manage vCenter Server inventory objects and licenses</li> </ul>	<p><b>10 vSphere HA and vSphere Fault Tolerance</b></p> <ul style="list-style-type: none"> <li>• Explain the vSphere HA architecture</li> <li>• Configure and manage a vSphere HA cluster</li> <li>• Set vSphere HA advanced parameters</li> <li>• Enable vSphere Fault Tolerance on a virtual machine</li> <li>• Describe vSphere Replication and vSphere Data Protection</li> <li>• Troubleshoot vSphere HA</li> </ul>
<p><b>5 Troubleshooting vSphere</b></p> <ul style="list-style-type: none"> <li>• Use a structured approach to troubleshoot issues in vSphere</li> <li>• Discuss options for running vSphere commands</li> <li>• Locate and use important vSphere log files</li> </ul>	<p><b>11 Host Scalability</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of a vSphere DRS cluster</li> <li>• Create a vSphere DRS cluster</li> <li>• View information about a vSphere DRS cluster</li> <li>• Troubleshoot vSphere DRS clusters</li> </ul>
<p><b>6 Configuring and Managing Virtual Networks</b></p> <ul style="list-style-type: none"> <li>• Describe, create, and manage a standard switch</li> <li>• Describe and modify standard switch properties</li> <li>• Describe the NIC teaming of a standard switch port group</li> <li>• Describe, create, and manage a distributed switch</li> <li>• Troubleshoot virtual networking</li> </ul>	<p><b>12 vSphere Update Manager and Host Maintenance</b></p> <ul style="list-style-type: none"> <li>• Describe, install, and configure vSphere Update Manager</li> <li>• Describe and use host profiles</li> <li>• Use baselines and remediate ESXi hosts</li> <li>• Perform patch management</li> </ul>



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**13 Installing vSphere Components**

- Describe how to install ESXi interactively
- Identify the basic requirements for an ESXi host to boot from SAN
- Identify system requirements to install vCenter Server
- Install vCenter Server on a supported Windows system
- Troubleshoot ESXi and vCenter Server



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