



# VMware vSphere: Install, Configure, Manage [V5.5] H6D01S

## Course Overview

This hands-on training course explores installation, configuration, and management of VMware vSphere®, which consists of VMware ESXi™ and VMware® vCenter Server™. This course is based on versions of ESXi 5.5 and vCenter Server 5.5. Completion of this course satisfies the prerequisite for taking the VMware® Certified Professional 5 exam. This course is 60% lecture and 40% hands-on lab.

<b>Price</b>	USD \$3,800
<b>Links to local schedules, pricing and registration</b>	<a href="#">US/Canada</a> <a href="#">Mexico/Latin America</a> <a href="#">Brazil</a>
<b>Course title</b>	VMware vSphere: Install, Configure, Manage [V5.5]
<b>HP course #</b>	H6D01S
<b>Category</b>	VMware
<b>Duration</b>	5 days

## Special note

This course now has been updated to VMware vSphere version 6.0. [View course datasheet.](#)

### 1) Announcing HP My Virtual Lab

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2) Attend VMware VCP Certification Exam Prep Seminar (value \$400 USD) at no charge when you register for H6D01S/SR course with HP.

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Purchase method/s: 5 units of HP Care Pack for VMware Training ([HF386E/A1](#)), or Credit Card, or VMware PSO credits or Purchase Order.

## Audience

- System administrators
- Systems engineers
- Operators of ESXi and vCenter Server

## Prerequisites

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

## Course objectives

By the end of the course, you should understand vSphere 5.5 functions and features and be able to meet the following objectives:

- Deploy an ESXi host
- Deploy a vCenter Server instance
- Deploy a vCenter Server appliance
- Manage an ESXi host using vCenter Server
- Manage ESXi storage using vCenter Server
- Manage ESXi networking using vCenter Server
- Manage virtual machines using vCenter Server
- Deploy and manage thin-provisioned virtual machines
- Migrate virtual machines with VMware vSphere® vMotion®
- Manage vSphere infrastructure with VMware vSphere® Web Client and VMware vSphere® Client™
- Migrate virtual machines using VMware vSphere® Storage vMotion®
- Manage access control using vCenter Server
- Monitor resource usage using vCenter Server
- Manage VMware vSphere® High Availability, VMware vSphere® Fault Tolerance, and VMware vSphere® Data Protection™ using vCenter Server
- Apply patches using VMware vSphere® Update Manager™

## Course outline

### Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

### Module 2: Virtualized Data Center

- Introduce components of the virtualized data center
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere Client

### Module 3: Creating Virtual Machines

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Deploy a single virtual machine

**Module 4: VMware vCenter Server**

- Introduce the vCenter Server architecture Introduce VMware® vCenter™ Single Sign-On™
- Install and use vSphere Web Client
- Introduce VMware® vCenter™ Server Appliance™
- Configure and manage vCenter Server Appliance
- Manage vCenter Server inventory objects and licenses

**Module 5: Configuring and Managing Virtual Networks**

- Describe, create, and manage a standard switch
- Describe and modify standard switch properties
- Configure virtual switch load-balancing algorithms

**Module 6: Configuring and Managing Virtual Storage**

- Introduce storage protocols and device names
- Configure ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere datastores
- Deploy and manage VMware® Virtual SAN™

**Module 7: Virtual Machine Management**

- Use templates and cloning to deploy virtual machines
- Modify and manage virtual machines
- Create and manage virtual machine snapshots
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create a VMware vSphere® vApp™

**Module 8: Access and Authentication Control**

- Control user access through roles and permissions
- Configure and manage the ESXi firewall
- Configure ESXi lockdown mode
- Integrate ESXi with Active Directory

**Module 9: Resource Management and Monitoring**

- Introduce virtual CPU and memory concepts
- Describe methods for optimizing CPU and memory usage
- Configure and manage resource pools
- Monitor resource usage using vCenter Server performance graphs and alarms

**Module 10: High Availability and Fault Tolerance**

- Introduce the new vSphere High Availability architecture
- Configure and manage a vSphere HA cluster
- Introduce vSphere Fault Tolerance
- Describe VMware vSphere® Replication

**Module 11: Scalability**

- Configure and manage a VMware vSphere® Distributed Resource Scheduler™ (DRS) cluster
- Configure Enhanced vMotion Compatibility
- Use vSphere HA and DRS together

## **Module 12: Patch Management**

- Use vSphere Update Manager to manage ESXi patching
- Install vSphere Update Manager and the vSphere Update Manager plug-in
- Create patch baselines
- Scan and remediate hosts

## **Module 13: Installing VMware Components**

- Introduce ESXi installation
- Describe boot-from-SAN requirements
- Introduce vCenter Server deployment options
- Describe vCenter Server hardware, software, and database requirements
- Install vCenter Server (Windows-based)

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