



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VM-VS-ICM-V6	40 Hours (5 days)	\$4,250.00

Description

VMware vSphere: Install, Configure, Manage is our best-selling course. It features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 6, which includes VMware ESXi™ 6 and VMware vCenter Server™ 6. This course will give you a solid understanding of how to administer a vSphere infrastructure for an organization of any size. This course meets the prerequisite for advanced vSphere courses, which can be found at www.vmware.com/education.

Objectives

- Describe the software-defined data center • Deploy an ESXi host and create virtual machines • Describe vCenter Server architecture • Deploy a vCenter Server instance or VMware vCenter Server™ Appliance™ • Use vCenter Server to manage an ESXi host • Configure and manage vSphere infrastructure with VMware vSphere® Client™ and VMware vSphere® Web Client • Configure virtual networks with vSphere standard switches • Use vCenter Server to manage various types of host storage • Manage virtual machines, templates, clones, and snapshots • Create a vApp • Describe and use the content library • Migrate virtual machines with VMware vSphere® vMotion® • Use VMware vSphere® Storage vMotion® to migrate virtual machine storage • Monitor resource usage and manage resource pools • 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 vSphere distributed switches to improve network scalability • Use VMware vSphere® Update Manager™ to apply patches • Perform basic troubleshooting of ESXi hosts, virtual machines, and vCenter Server operations

Audience

- System administrators • Systems engineers

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

Programme

- 1.Course Introduction ◦Introductions and course logistics ◦Course objectives
- 2.Software-Defined Data Center
 - Introduce components of the software-defined data center
 - Describe where vSphere fits into the cloud architecture
 - Install and use vSphere Client
 - Overview of ESXi
- 3.Creating Virtual Machines
 - Introduce virtual machines, virtual machine hardware, and virtual machine files
 - Create and work with virtual machines
- 4.vCenter Server
 - Introduce the vCenter Server architecture
 - Deploy and configure vCenter Server Appliance
 - Install and use vSphere Web Client
 - Manage vCenter Server inventory objects and licenses
 - Explain the benefits of Enhanced vMotion Compatibility
- 5.Configuring and Managing Virtual Networks
 - Describe, create, and manage standard switches
 - Describe and modify standard switch properties
 - Configure virtual switch load-balancing algorithms
 - Create, configure, and manage vSphere distributed switches, network connections, and port groups
- 6.Configuring and Managing Virtual Storage
 - Introduce storage protocols and storage device names
 - Discuss ESXi with iSCSI, NFS, and Fibre Channel storage
 - Create and manage VMware vSphere® VMFS datastores
 - Introduce VMware Virtual SAN™
- 7.Virtual Machine Management

◦Use templates and cloning to deploy virtual machines ◦Modify and manage virtual machines ◦Perform vSphere vMotion and vSphere Storage vMotion migrations ◦Create and manage virtual machine snapshots ◦Create a vApp ◦Introduce the various types of content libraries and how to deploy and use them

8.Resource Management and Monitoring

◦Introduce virtual CPU and memory concepts ◦Configure and manage resource pools ◦Describe methods for optimizing CPU and memory usage ◦Use vCenter Server performance graphs and alarms to monitor resource usage ◦Create and use alarms to report certain conditions or events ◦Introduce vRealize Operations Manager for data center monitoring and management

9.vSphere HA and vSphere Fault Tolerance

◦Explain the vSphere HA architecture ◦Configure and manage a vSphere HA cluster ◦Use vSphere HA advanced parameters ◦Introduce vSphere Fault Tolerance ◦Enable vSphere Fault Tolerance on virtual machines ◦Introduce vSphere Replication ◦Use vSphere Data Protection to back up and restore data

10.Host Scalability

◦Describe the functions of a vSphere DRS cluster ◦Configure and manage a vSphere DRS cluster ◦Work with affinity and anti-affinity rules ◦Use vSphere HA and vSphere DRS together

11.vSphere Update Manager and Host Maintenance

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

12.Installing VMware Components

◦Introduce ESXi installation ◦Describe boot-from-SAN requirements ◦Introduce vCenter Server deployment options ◦Describe vCenter Server hardware, software, and database requirements ◦Discuss installation of vCenter Server Appliance and a vCenter Server instance

Test and Certification

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Session Dates

On request. Please [Contact Us](#)

Additional Information

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