



## Vsphere 5.5 Syllabus details

### **1. Course Introduction**

- ✓ Introductions and course logistics
- ✓ Course objectives

### **2. Virtualized Data Center**

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

### **3. Creating Virtual Machines**

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

### **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



## 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

## 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™

## 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™

## 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

## 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



## 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

## 11. Scalability

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

## 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

## 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)