

# Logical Operations Certified Virtualization Professional (CVP)— VMware vSphere 6.0 Level 1 Exam CVP1-110

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## Exam Information

### Candidate Eligibility:

The *Logical Operations Certified Virtualization Professional—VMware vSphere 6.0 Level 1* exam requires no application fee, supporting documentation, or other eligibility verification measures for you to be eligible to take the exam. Simply purchase an exam voucher [here](#), then Logical Operations will send you an email containing the information you need to register to take the exam through Pearson VUE. You can also purchase a voucher directly through Pearson VUE. If your voucher came bundled with your CVP training program, you will receive registration information from your training provider. Once you have obtained your voucher information, you can register for an exam time [here](#). By redeeming your exam voucher, you agree to our [Candidate Agreement](#).

### Exam Prerequisites

While there are no formal prerequisites to register for and schedule a CVP1-110 exam time, Logical Operations (LO) strongly recommends you first possess the knowledge, skills, and abilities to do the following:

- Explain the significant benefits of virtualization
- Install ESXi Server following best practices
- Configure and manage local storage
- Create virtual and virtual-to-physical LAN segments
- Use shared SAN storage, including Fibre SAN and iSCSI SAN
- Define and use file share (NAS) datastores
- Install, configure, and update the Platform Service Controller and vCenter Server Appliance
- Configure and use hotplug hardware, including hot-add vCPUs and memory
- Add and grow virtual disks, including system disks and secondary volumes
- Rapidly deploy VMs using golden-master templates
- Create clones

- Perform VM cold migrations, hot migrations, and Storage vMotion
- Configure, manage, monitor, and secure users and groups
- Identify the benefits and tradeoffs of network attached storage, and Fibre and iSCSI SANs
- Deploy and use VMware Replication to hot backup and recover critical VMs
- Create and manage DRS load balanced clusters
- Understand, create, and manage High Availability clusters to protect against VM service loss caused by ESXi Server failures
- Monitor and tune both ESXi and virtual machine performance
- Patch and update ESXi Servers using VMware Update Manager
- Identify how VMware and third-party products, including operating systems, are impacted by virtualization
- Use advanced vSwitch settings, like NIC Teaming and Security
- Troubleshoot common problems

You can obtain this level of skill and knowledge by taking the following Logical Operations course, which is available through training providers located around the world:

- *VMware vSphere 6.0 with ESXi and vCenter*

Please visit [www.cvpcertified.com](http://www.cvpcertified.com) for a full listing of training providers offering this course.

## Exam Specifications

**Number of Items:** 80

**Passing Score:** 56 out of 80 (70%)

**Duration:** 115 minutes (**Note:** Published exam times include the 5 minutes you are allotted for reading and signing the Candidate Agreement and the 5 minutes you are allotted for the Pearson VUE testing system tutorial.)

**Exam Options:** In person at Pearson VUE test centers

**Item Formats:** Multiple Choice/Multiple Response/True-False

## Exam Description

**Target Candidate:**

This exam is intended for vSphere 6.0 Operators and Junior Administrators who perform duties that could include: installing and configuring stand-alone ESXi Servers; configuring and managing shared storage and networks; performing centralized management tasks; resource balancing; ensuring high availability; power management; running backup and recovery processes; monitoring and managing

performance; and ensuring VM and vCenter redundancy. The typical candidate has one year of day-to-day vSphere administration experience.

To ensure exam candidates possess the aforementioned knowledge, skills, and abilities, the CVP1-110 exam will test them on the following objective domains with the following weightings:

Domain	% of Examination
<b>1.0 vSphere 6.0 with ESXi and vCenter Overview</b>	2%
<b>2.0 VMware vSphere 6.0</b>	4%
<b>3.0 Stand Alone ESXi</b>	6%
<b>4.0 Networking</b>	4%
<b>5.0 NAS Storage</b>	4%
<b>6.0 Virtual Machine Creation</b>	8%
<b>7.0 Central Management with vCenter Server</b>	7%
<b>8.0 Multiple VM Deployment</b>	6%
<b>9.0 Defining Permission Models</b>	4%
<b>10.0 Shared Storage</b>	7%
<b>11.0 Working with VMware File Systems</b>	6%
<b>12.0 Monitoring Virtual Infrastructure with vCenter Alarms</b>	3%
<b>13.0 Allocating Resource Pools</b>	6%
<b>14.0 Workload Migration Using VMware vCenter Converter</b>	5%
<b>15.0 VM Migration</b>	4%
<b>16.0 Distributed Resource Scheduling Clusters</b>	5%
<b>17.0 Ensuring High Availability</b>	6%
<b>18.0 Performing vSphere Replication</b>	4%
<b>19.0 Working with VMware Update Manager</b>	3%
<b>20.0 Performance Analysis and Tuning</b>	6%
<b>Total</b>	<b>100%</b>

The information that follows is meant to help you prepare for your Logical Operations certification exam. This information does not represent an exhaustive list of all the concepts and skills that you may be tested on during your exam. The exam domains, identified previously and included in the objectives listing, represent the large content areas covered in the exam. The objectives within those domains represent the specific tasks associated with the job role being tested. This information represents the industry-expert analysis of the job role related to the certification and does not necessarily correlate one-to-one with the content covered in your training program or on your exam. Logical Operations strongly recommends that you independently study to familiarize yourself with any concept identified here that was not explicitly covered in your training program or products.

## **Objectives:**

### **Domain 1: vSphere 6.0 with ESXi and vCenter Overview**

- Identify common uses for virtualization
- Define basic virtualization concepts and terms
- Identify common features of vSphere 6.0

### **Domain 2: VMware vSphere 6.0**

- Identify the major features of vSphere 6.0
- Identify common IT problems and vSphere solutions to them
- Configure and scale vSphere deployments

### **Domain 3: Stand Alone ESXi**

- Install ESXi
- Perform post-installation processes
- Follow common best practices for ESXi installation

### **Domain 4: Networking**

- Identify common virtual network hardware components
- Create and configure virtual switches
- Uplink virtual switches to physical LAN segments

### **Domain 5: NAS Storage**

- Identify common NAS terms and concepts
- Identify common NAS and NFS components

- Define NFS shares
- Unmount NFS shares
- Troubleshoot NFS shares
- Identify the pros and cons of NFS/NAS
- Follow NFS best practices

#### **Domain 6: Virtual Machine Creation**

- Identify common virtual machine hardware components
- Create and configure virtual machines
- Install guest operating systems
- Install VMware Tools

#### **Domain 7: Central Management with vCenter Server**

- Import and configure vCenter Server
- Add an ESXi host to vCenter
- Create an inventory hierarchy
- Install and operate the VMware Remote Console Application

#### **Domain 8: Multiple VM Deployment**

- Create VM deployment images
- Deploy VMs from images
- Create VM copies by cloning
- Customize guest OSs
- Work with and manage virtual appliances

### **Domain 9: Defining Permission Models**

- **Assign and test existing roles**
- **Define and test custom roles**
- **Follow permission best practices**

### **Domain 10: Shared Storage**

- **Add centralized storage resources**
- **Consolidate storage capacity**
- **Improve storage performance and manage storage**
- **Replicate and back up storage**
- **Perform disaster recovery tasks**

### **Domain 11: Working with VMware File Systems**

- **Create and grow a VMFS**
- **Span VMFSs onto other LUNs**
- **Review spanned LUN properties**

### **Domain 12: Monitoring Virtual Infrastructure with vCenter Alarms**

- **Identify alarm parameters and actions**
- **Define new alarms**
- **Modify custom alarms**
- **Work with active and object alarms**
- **Follow alarm best practices**

- Identify alarm targets

### **Domain 13: Allocating Resource Pools**

- Create resource pools
- Place VMs in existing resource pools
- Manage dynamic memory

### **Domain 14: Workload Migration Using VMware vCenter Converter**

- Install vCenter Converter
- Hot convert VMs to new VMs
- Customize host OSs on converted VMs
- Verify successful conversion

### **Domain 15: VM Migration**

- Cold and vMotion Migrate VMs across ESXi Servers
- Perform Storage vMotion
- Evacuate ESXi hosts

### **Domain 16: Distributed Resource Scheduling Clusters**

- Create DRS clusters
- Perform initial placement and dynamic balancing of ESXi hosts
- Follow DRS best practices

### **Domain 17: Ensuring High Availability**

- Enable and configure High Availability (HA)
- Set HA failure policy

#### **Domain 18: Performing vSphere Replication**

- Import the vSphere Replication appliance
- Configure VMs for replication
- Perform initial replications
- Power off and recover VMs
- Connect recovered VMs to networks and test functionality

#### **Domain 19: Working with VMware Update Manager**

- Install VMware Update Manager
- Install the VUM vSphere Client plug-in
- Create ESXi host patch baselines
- Attach baselines to ESXi hosts
- Apply patches to ESXi hosts

#### **Domain 20: Performance Analysis and Tuning**

- Schedule and prioritize CPU usage
- Manage RAM allocation
- Follow CPU and memory best practices
- Generate performance charts
- Identify common performance issues
- Run performance analysis tools



## Continuing Education Requirements

The *Certified Virtualization Professional—VMware vSphere 6.0 Level 1* certification is valid for three years from the time the certification is granted. You must re-take the most up-to-date version of the exam prior to the three-year period's end to maintain a continuously valid certification.

To view the Logical Operations Candidate Agreement, click [here](#).

Then purchase a voucher to take the exam by clicking [here](#).