

# Logical Operations Certified Virtualization Professional (CVP)— VMware vSphere 6.0 Level 2 Exam CVP2-110

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## Exam Information

### Candidate Eligibility:

The *Logical Operations Certified Virtualization Professional—VMware vSphere 6.0 Level 2* 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 CVP2-110 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 Standard and Distributed virtual switches and use pNICs to uplink virtual-to-physical LAN segments
- Understand and use advanced vSwitch settings, such as NIC Teaming and Security
- Improve network performance with Jumbo Frames
- Use shared SAN storage, including Fibre SAN and iSCSI SAN
- Create and use Raw Device Maps
- Define and use file share (NAS) datastores
- Install, configure, and update the Platform Service Controller and vCenter Server Appliance

- Create VMs, and install operating systems and applications
- 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, vMotion hot migrations, and Storage vMotion storage migrations
- 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 implement VM disaster preparedness
- Create and manage load balanced Distributed Resource Scheduling clusters
- Understand, create, and manage High Availability clusters to protect against VM service loss caused by ESXi Server failures
- Configure VMware Fault Tolerance to maintain VM availability in the event of an ESXi host failure
- 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
- Create and use Distributed Virtual Switches
- Troubleshoot common problems

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

- *VMware vSphere 6.0 with ESXi and vCenter*
- *VMware vSphere 6.0 with ESXi and vCenter Boot Camp*

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

## 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 intermediate and senior vSphere 6.0 Administrators and Operators who are tasked with getting the maximum benefit from investments in virtual infrastructure; Security Specialists who are responsible for administering, managing, and securing virtual environments; Performance Analysts who need to provision and monitor virtual infrastructure; and Storage Administrators who work with Fibre/iSCSI SAN volumes and NAS datastores. The typical candidate has two years or more of day-to-day vSphere administration experience.

To ensure exam candidates possess the aforementioned knowledge, skills, and abilities, the CVP2-110 exam will test them on the following objective domains with the following weightings:

Domain	% of Examination
<b>1.0 Stand Alone ESXi</b>	4%
<b>2.0 Networking</b>	4%
<b>3.0 NAS Storage</b>	6%
<b>4.0 Virtual Machine Creation</b>	9%
<b>5.0 Central Management with vCenter Server</b>	7%
<b>6.0 Multiple VM Deployment</b>	6%
<b>7.0 Defining Permission Models</b>	4%
<b>8.0 Shared Storage</b>	10%
<b>9.0 Working with VMware File Systems</b>	9%
<b>10.0 Monitoring Virtual Infrastructure with vCenter Alarms</b>	2%
<b>11.0 Allocating Resource Pools</b>	5%
<b>12.0 Workload Migration Using VMware vCenter Converter</b>	5%
<b>13.0 VM Migration</b>	5%
<b>14.0 Distributed Resource Scheduling Clusters</b>	6%
<b>15.0 Ensuring High Availability</b>	5%
<b>16.0 Performing vSphere Replication</b>	5%
<b>17.0 Working with VMware Update Manager</b>	4%
<b>18.0 Performance Analysis and Tuning</b>	4%
<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: Stand Alone ESXi**

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

### **Domain 2: Networking**

- **Identify common virtual network hardware components**
- **Create and configure virtual switches**
- **Uplink virtual switches to physical LAN segments**
- **Perform advanced virtual networking tasks**
- **Work with advanced virtual hardware components**

### **Domain 3: 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 4: Virtual Machine Creation**

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

#### **Domain 5: 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 6: 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 7: Defining Permission Models**

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

### **Domain 8: Shared Storage**

- **Add centralized storage resources**
- **Consolidate storage capacity**
- **Improve storage performance and manage storage**
- **Replicate and back up storage**
- **Perform disaster recovery tasks**
- **Work with Raw Device Maps**

### **Domain 9: Working with VMware File Systems**

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

### **Domain 10: 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 11: Allocating Resource Pools**

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

#### **Domain 12: 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 13: VM Migration**

- Migrate VMs across ESXi Servers
- Evacuate ESXi hosts

#### **Domain 14: Distributed Resource Scheduling Clusters**

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

#### **Domain 15: Ensuring High Availability**

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

#### **Domain 16: 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 17: 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 18: 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



- **Manage scalability**

### **Continuing Education Requirements**

The *Certified Virtualization Professional—VMware vSphere 6.0 Level 2* 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](#).