



# HPE Converged System Administration (for CS700) H7H03S

This course will provide the information needed to understand and manage HPE ConvergedSystem in the data center. The main focus is to have the students able to administer and perform the day to day management of the ConvergedSystem 700 primarily using HPE OneView. The course has been updated to include new features introduced in CS 700 version 2.5

<b>HPE course number</b>	H7H03S
<b>Course length</b>	3 days
<b>Delivery mode</b>	ILT/VILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
<b>View related courses</b>	<a href="#">View now</a>

## Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training\*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services\*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

## Audience

System Administrators and others that may benefit include: Cloud Architects, Storage Architects, Sales Engineers, Consultants, Technical Marketing staff

## Prerequisites

- HPE Access layer network Technologies
- Introduction to HPE ProLiant Servers and/or HPE BladeSystem Administration
- VMware vSphere: Install, Configure, Manage
- SAN Essentials

## Benefits

- Gain a thorough understanding of HPE ConvergedSystem
- Be confident in your ability to manage HPE ConvergedSystem

## Objectives

- Understand the available products in the portfolio
- Recognize the separate components included in a ConvergedSystem
- Identify the included software stack and the Management Servers used in ConvergedSystem
- Access the components included in a ConvergedSystems
- Perform day to day administrative tasks using HPE OneView as the main management interface

## Detailed Outline

<b>Module 0 - Course Overview</b>	<ul style="list-style-type: none"> <li>• Set out the course objectives</li> </ul>	
<b>Module 1 - Portfolio Overview</b>	<ul style="list-style-type: none"> <li>• Converged infrastructure and converged systems portfolio</li> <li>• Transforming to Hybrid IT and a fast path to a cloud</li> <li>• CS700 technology and design principles</li> <li>• Foundation and virtualization solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Expansions and upgrades</li> <li>• HPE OneView</li> <li>• Support services</li> </ul>
<b>Module 2 - Technical Install, Setup, and Support</b>	<ul style="list-style-type: none"> <li>• CS700 options, design, architecture, and a high-level overview</li> <li>• HPE BL460c/WS460c support and options</li> <li>• Expanded hardware</li> </ul>	<ul style="list-style-type: none"> <li>• HPE converged architecture and reference architecture</li> <li>• HPE StoreServ software options</li> <li>• Deployment, integration, and support</li> <li>• Technical components and services</li> </ul>
<b>Module 3—HPE ConvergedSystem Management with HPE OneView</b>	<ul style="list-style-type: none"> <li>• Describe the basic environment components</li> <li>• Describe the health monitoring in HPE OneView</li> <li>• Provide the Converged System environment review <ul style="list-style-type: none"> <li>- Rack, PDU, DL, c7000, BL, storage, and networking</li> <li>- Management servers</li> </ul> </li> <li>• Access the server management interfaces:</li> </ul>	<ul style="list-style-type: none"> <li>- HPE iLO and HPE Onboard Administrator</li> <li>- Virtualization Host Servers and Management Virtual Machines</li> <li>- HPE OneView</li> <li>- VMware vCenter and VCops Integration for HPE OneView</li> <li>- HPE Virtual Services Router</li> <li>- HPE Insight Control server provisioning</li> </ul>
<b>Module 4—HPE ConvergedSystem Server and Enclosure Management</b>	<ul style="list-style-type: none"> <li>• Use the HPE OneView resources</li> <li>• Manage compute servers <ul style="list-style-type: none"> <li>- HPE Enclosure and server blades</li> <li>- HPE ProLiant DL server blades</li> </ul> </li> <li>• Describe the enclosure refresh</li> <li>• Identify automatic actions</li> </ul>	<ul style="list-style-type: none"> <li>• Manage profiles <ul style="list-style-type: none"> <li>- HPE OneView profiles</li> <li>- Connections, boot order, and the BIOS settings</li> <li>- Profiles and StoreServ storage</li> <li>- Processes of creating, copying, editing, and deleting</li> </ul> </li> </ul>
<b>Module 5—Network Administration</b>	<ul style="list-style-type: none"> <li>• Describe different HPE ConvergedSystem networking components</li> <li>• Describe switches and supported vendors</li> </ul>	<ul style="list-style-type: none"> <li>• Define the interconnect modules</li> <li>• Describe the Virtual Connect technology</li> </ul>
<b>Module 6—HPE ConvergedSystem Network Management</b>	<ul style="list-style-type: none"> <li>• Manage HPE ConvergedSystems connectivity in HPE OneView</li> <li>• Provide the HPE OneView capabilities overview</li> <li>• Describe the HPE OneView networking concepts</li> <li>• Describe the HPE OneView LAN and SAN</li> </ul>	<ul style="list-style-type: none"> <li>• Describe domains, enclosure groups, and logical interconnect groups</li> <li>• Define the network sets and server connections</li> <li>• Describe the uplink sets</li> </ul>
<b>Module 7—HPE ConvergedSystem Storage Administration</b>	<ul style="list-style-type: none"> <li>• Describe the different HPE ConvergedSystems storage components</li> <li>• Describe the HPE OneView Storage management capabilities <ul style="list-style-type: none"> <li>- Fibre Channel and Fibre Channel over Ethernet connections</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- HPE OneView setup and configuration of storage networks</li> <li>• Describe HPE 3PAR Storage software</li> <li>• Use Management Console and CLI</li> </ul>
<b>Module 8—Storage Management</b>	<ul style="list-style-type: none"> <li>• Manage HPE ConvergedSystems storage in HPE OneView</li> <li>• Add and configure the storage system, its ports, and storage pools</li> <li>• Manage storage systems</li> <li>• Identify supported SAN managers and hardware</li> </ul>	<ul style="list-style-type: none"> <li>• Configure HPE OneView in terms of: <ul style="list-style-type: none"> <li>- Resource architecture and capabilities</li> <li>- Storage connectivity and volumes</li> <li>- Storage systems</li> </ul> </li> <li>• Manage HPE OneView storage volumes <ul style="list-style-type: none"> <li>- Monitor and diagnose the SAN manager</li> </ul> </li> </ul>

**Module 9—HPE ConvergedSystem Maintenance**

- Administer the HPE OneView user accounts and roles
- Configure Active Directory and manage certificates
- Update and upgrade the HPE OneView appliance
- Backup and restore the appliance
- Capture the support dumps
- Troubleshoot the appliance

**Lab Outline****Lab 1 Navigating HPE ConvergedSystem website resources**

- Access the HPE ConvergedSystems website
- Familiarize yourself with the documents available there
- iLO and OA links if not familiar with the HPE ProLiant Servers
- Access the HPE Services Media Library
- Use the tools provided by the Services Media Library

**Lab 2 Navigating the HPE vLabs Environment**

- Access the HPE Virtual Labs (HPE vLabs) environment
- Access the ConvergedSystem 700 environment

**Lab 3 HPE CS 700 Environmental Monitoring with HPE OneView**

- View and import the Intelligent Power Delivery Device information.
- Specify rack configuration and enclosure position where Location Discovery Services are not available.
- Configure your Data Center layout and monitor power and cooling data.
- Add and Remove a Dashboard Panel
- Configure Alerts notification and Monitoring
- View Reports
- View Activity, Alerts and Tasks

**Lab 4 HPE OneView Profile Management**

- Update to the newest supported Service Pack for ProLiant (SPP)
- Identify configurations defined in server profiles
- Review and update server profile template
- Copy server profiles to supported servers

**Lab 5 HPE OneView Enclosure Management**

- Review enclosure group
- Import enclosures to OneView management
- Examine imported enclosure resources
- Assign Server Profiles to new servers
- Run Reports to verify status

**Lab 6 Review Logical Interconnect Groups**

- Review configuration for CS Logical Interconnect Group
- Review Logical Interconnect
- Review Shared Uplink Set
- Review Interconnects

**Lab 7 Configuring OneView Networks**

- Ethernet networks
- Fibre Channel networks
- Logical Interconnect Group
- Logical Interconnects
- Network Sets

**Lab 8 Configuring HPE OneView Storage**

- Review and check HPE OneView connectivity to a 3PAR Storage System
- Identify associated Fibre Channel networks with the managed SAN ports
- Create new volumes and add existing volumes from a 3PAR Storage System to a Server Profile
- Add additional 3PAR Storage Systems and Pools

**Lab 9 Maintenance and Troubleshooting**

- Create and administer local users of the HPE OneView appliance
- Create a backup of the configured HPE OneView appliance
- Download and review an audit log file
- Create and download an HPE OneView appliance Support Dump file
- Download a Logical Enclosure Support Dump file

**Lab 10 ICsp OS Deployment**

- Discover the created virtual machine server with the HPE ICsp appliance
- Provision a VM target server with ESXi operating system

Learn more at  
[hpe.com/ww/learnconvergedsystems](http://hpe.com/ww/learnconvergedsystems)

**Follow us:**



---

© Copyright 2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. The OpenStack Word Mark is either a registered trademark/service mark or trademark/service mark of the OpenStack Foundation, in the United States and other countries and is used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community. Pivotal and Cloud Foundry are trademarks and/or registered trademarks of Pivotal Software, Inc. in the United States and/or other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other third-party trademark(s) is/are the property of their respective owner(s).

c04648721, Apr 2017, Rev. 1