



# HPE Moonshot Administration H4C03S

<b>HPE course number</b>	H4C03S
<b>Course length</b>	3 days
<b>Delivery mode</b>	ILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
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This 3-day course provides the information and experience necessary to install, configure, and manage the HPE Moonshot. It will also provide the opportunity for the student to be able to install a Linux Operating System on the Moonshot via PXE and the CMU (Cluster Management Utility). The course consists of a series of labs that will be completed on Moonshot systems from the HPE Virtual Labs.

## 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

Administrators, engineers and consultants who will:

- Plan and manage the deployment of the HPE Moonshot
- Install, configure, and manage the Moonshot
- Install Operating Systems on the Moonshot

## Prerequisites

HPE recommends that students have attained the following credentials or levels of experience before taking this course:

- Familiarity with general networking terminology and basic network security concepts
- A general understanding of Red Hat® Enterprise Linux 6.4 or higher
- Introduction to HPE ProLiant Servers (HE643S)
- HPE BladeSystem Administration (HE646S)

## Course objectives

At the conclusion of this course you should be able to:

- Discuss the primary features of HPE Moonshot
- Explain the functions of the primary components of Moonshot
- Install and configure Moonshot
- Manage Moonshot
- Service and support Moonshot
- Use CMU (Cluster Management Utility) to deploy Linux on the HPE ProLiant Moonshot Server cartridges

## Benefits to you

- Gain the knowledge to successfully plan, deploy, install, configure, and manage an HPE Moonshot system
- Use the labs to obtain hands-on experience with installing, configuring, and managing an HPE Moonshot system and installing a Linux OS on a HPE Moonshot Server Cartridge

## Detailed course outline

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<b>Module 1: Course overview</b>	<ul style="list-style-type: none"> <li>• Define the course objectives</li> <li>• Define the course audience</li> <li>• Review the daily course schedules</li> <li>• Provide links to Moonshot—related reference resources</li> <li>• Reiterate learning best practices</li> <li>• Provide the students with an opportunity to introduce themselves—Name, location, job title, an interest outside computers, course expectations</li> </ul>
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### Lab A: HPE virtual room and lab fundamentals

<b>Module 2: Tour of the product</b>	<ul style="list-style-type: none"> <li>• Discuss the key components of the Moonshot program</li> <li>• Explain the primary benefits of Moonshot</li> <li>• Describe the features of the primary Moonshot components</li> <li>• Locate, remove, and replace the primary Moonshot components</li> <li>• Rackmount a Moonshot</li> </ul>
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<b>Module 3: HPE 1500 Moonshot Chassis Management Module</b>	<ul style="list-style-type: none"> <li>• Explain the primary functions of the Moonshot 1500 Chassis Management Module</li> <li>• Discuss the primary components of the Moonshot 1500 CM Module</li> <li>• Describe how the Moonshot 1500 CM module communicates to each of the primary Moonshot components through their associated satellite controller</li> <li>• Use the Moonshot 1500 CM Module CLI to manage the Moonshot components</li> </ul>
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### Lab B: Moonshot Chassis Management Module Management

<b>Module 4: Moonshot Cartridges</b>	<ul style="list-style-type: none"> <li>• List the types of available Moonshot Cartridges</li> <li>• Highlight the major features of each type of Moonshot Cartridge</li> <li>• Describe the OS' supported by each type of Moonshot Cartridge</li> </ul>
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<b>Module 5: Moonshot Switches and uplink modules</b>	<ul style="list-style-type: none"> <li>• Explain how the Moonshot Switch modules and Uplink modules are used to connect the cartridges to the external network</li> <li>• Describe the primary features of the Moonshot—45G and 180G Switch modules</li> <li>• Discuss the buttons and LEDs that exist on the front panel of the Moonshot Switch modules</li> <li>• Connect to the Moonshot Uplink ports and identify the corresponding LEDs</li> <li>• Locate and use the Moonshot Switch module CLI commands</li> <li>• Discuss how the Moonshot Switch modules can be stacked and their ports aggregated</li> </ul>
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### Lab C: Moonshot Switch Module Management

<b>Module 6: Use and maintain</b>	<ul style="list-style-type: none"> <li>• Locate Moonshot-related software and firmware</li> <li>• Update Moonshot firmware</li> <li>• Use PXE to load an OS to a Moonshot Server Cartridge node</li> <li>• Use WDS (Windows® Deployment Server) to install a Windows OS to the Moonshot Server Cartridge node</li> <li>• Explain Moonshot IPMI functionality</li> </ul>
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### Lab D. Updating Moonshot Firmware

### Lab E. Updating Switch Module Firmware

### Lab F. Using PXE to load a Linux OS to a Moonshot Cartridge Node

<b>Module 7: Service and repair</b>	<ul style="list-style-type: none"> <li>• Determine which Moonshot components are and are not CSRs</li> <li>• Use some of the more common Linux diagnostic commands</li> <li>• Locate Moonshot-related log files</li> <li>• Describe useful Moonshot troubleshooting features</li> </ul>
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<b>Module 8: Support</b>	<ul style="list-style-type: none"> <li>• Discuss the Services and Support Strategy for the Moonshot product</li> </ul>
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<b>Module 9: HPE Insight CMU</b>	<ul style="list-style-type: none"> <li>• Locate HPE Insight CMU (Cluster Management Utility) reference materials</li> <li>• Describe the function and features of CMU</li> <li>• Use the CMU GUI to accomplish some of the more common management tasks</li> <li>• Add nodes to the CMU database and group into logical groups</li> <li>• Generate a 'Golden Image' of an OS image that exists on a ProLiant Moonshot cartridge</li> <li>• Clone the Golden Image to other ProLiant Moonshot cartridges in the same logical group</li> </ul>
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### Lab G. CMU Node Management

### Lab H. Using CMU to backup and Clone a Moonshot Cartridge Node

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