



HP Education Services Course Overview

HP Moonshot Administration (H4C03S)

This 3-day course provides the information and experience necessary to install, configure, and manage the HP 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 HP Virtual Labs.

Audience

Administrators, engineers and consultants who will:

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

Prerequisites

HP 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.
- An general understanding of Red Hat Enterprise Linux 6.4 or higher
- Introduction to HP ProLiant Servers (HE643S)
- HP BladeSystem Administration (HE646S)

Course objectives

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

- Discuss the primary features of HP 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 HP ProLiant Moonshot Server cartridges

Course title:	HP Moonshot Administration
HP product number:	H4C03S
Category/Subcategory:	ProLiant
Course length:	3 days
Level:	Intermediate
Delivery language:	English
To order:	In HK, please contact HP Education Services on (852) 3070-6692 or email at hp-education.hk@hp.com or visit www.hp.com.hk/education Other countries please visit www.education.hp.com

Benefits to you

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

Why education services from HP?

- Training you need, when and where you need it with our Remotely Assisted Instructional Learning (RAIL)
- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)

- More than 30 years of Education Consulting
- Unmatched technical expertise and support for HP products and technologies
- Global training with more than 90 training locations worldwide
- Award winning Virtual classrooms and Virtual Labs for a real hands-on experience
- Comprehensive curriculum of job-specific training leading to vendor certification
- Streamlined purchase and management of training with HP Care Pack Services for Education

Detailed course outline

Module 1: Course Overview

- Define the course objectives
- Define the course audience
- Review the daily course schedules
- Provide links to Moonshot -related reference resources
- Reiterate learning best practices
- Provide the students with an opportunity to introduce themselves – Name, location, job title, an interest outside computers, course expectations

Lab a: HP Virtual Room and Lab Fundamentals

Module 2: Tour of the Product

- Discuss the key components of the Moonshot program
- Explain the primary benefits of Moonshot
- Describe the features of the primary Moonshot components
- Locate, remove, and replace the primary Moonshot components
- Rackmount a Moonshot

Module 3: HP 1500 Moonshot Chassis Management Module

- Explain the primary functions of the Moonshot 1500 Chassis Management Module
- Discuss the primary components of the Moonshot 1500 CM Module
- Describe how the Moonshot 1500 CM module communicates to each of the primary Moonshot components through their associated satellite controller
- Use the Moonshot 1500 CM Module CLI to manage the Moonshot components

Lab b: Moonshot Chassis Management Module Management

Module 4: Moonshot Cartridges

- List the types of available Moonshot Cartridges
- Highlight the major features of each type of Moonshot Cartridge
- Describe the OS' supported by each type of Moonshot Cartridge

Module 5: Moonshot Switches and Uplink Modules

- Explain how the Moonshot Switch modules and Uplink modules are used to connect the cartridges to the external network
- Describe the primary features of the Moonshot -45G and 180G Switch modules
- Discuss the buttons and LEDs that exist on the front panel of the Moonshot Switch modules
- Connect to the Moonshot Uplink ports and identify the corresponding LEDs
- Locate and use the Moonshot Switch module CLI commands
- Discuss how the Moonshot Switch modules can be stacked and their ports aggregated

Lab c: Moonshot Switch Module Management

Module 6: Use and Maintain

- Locate Moonshot-related software and firmware
- Update Moonshot firmware
- Use PXE to load an OS to a Moonshot Server Cartridge node
- Use WDS (Windows Deployment Server) to install a Windows OS to the a Moonshot Server Cartridge node
- Explain Moonshot IPMI functionality

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

Module 7: Service and Repair

- Determine which Moonshot components are and are not CSRs
- Use some of the more common Linux diagnostic commands
- Locate Moonshot-related log files
- Describe useful Moonshot troubleshooting features

Module 8: Support

Discuss the Services and Support Strategy for the Moonshot product

Module 9: HP Insight CMU

- Locate HP Insight CMU (Cluster Management Utility) reference materials
- Describe the function and features of CMU
- Use the CMU GUI to accomplish some of the more common management tasks
- Add nodes to the CMU database and group into logical groups
- Generate a 'Golden Image' of an OS image that exists on a ProLiant Moonshot cartridge
- Clone the Golden Image to other ProLiant Moonshot cartridges in the same logical group

Lab g. CMU Node Management

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

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