



NonStop CLIM Support Workshop HK595S

HPE course number	HK595S
Course length	3 days
Delivery mode	ILT
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This 3-day workshop is an advanced session for system support and service personnel designed to refresh existing support skills in troubleshooting and maintenance of the CLIM and its subsystems. Live DEMOs will be provided when needed to give the student practical exposure to troubleshooting/maintenance practices. Upon completion of this course, you will understand CLIM architecture, terminology, and advance in troubleshooting, update and reconstruct skills. This course is 70 percent lecture and 30 percent hands-on 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

- Anyone who needs to support and maintain a NonStop CLIM

Prerequisites

- HG768 HPE NonStop NB-series Field Support

Course objectives

- Review CLIM and Storage Device Hardware
- Describe CLIM software for the NonStop Host and the CLIM
- List CLIM Naming Conventions and Default Locations
- Describe Connecting CLIMs and Storage Devices
- Describe how to Configure Storage CLIMs and Storage Devices
- Describe how to Configure IP CLIMs

- Describe how to Add CLIMs to an Existing System
- Describe CLIM Software and Firmware Update procedures
- Reimage a CLIM Boot Drive
- Describe CLIM Troubleshooting procedures

Benefits to you

- Better understand the NonStop CLIM Architecture
- Advance in your skills in troubleshooting CLIM
- Advance in updating CLIM and reconstruct skills

Detailed course outline

Module 1: CLIM Overview

- Review CLIM and Storage Device Hardware
- Describe CLIM software for the NonStop Host and the CLIM
- List CLIM Naming Conventions and Default Locations
- Describe Connecting CLIMs and Storage Devices
- Describe how to Configure Storage CLIMs and Storage Devices
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- Describe how to Add CLIMs to an Existing System
- Describe CLIM Software and Firmware Update procedures
- Reimage a CLIM Boot Drive
- Describe CLIM Troubleshooting procedures

Module 2: CLIM and Storage Device Hardware Overview

- Review the SAS (Serial Attached SCSI) Architecture
- Describe the hardware components
- Storage CLIM
- IP CLIM
- OPEN (telco) CLIM
- MSA70 disk storage shelf
- D2700 disk storage shelf
- Telco storage shelves
- Describe TAPE devices

Module 3: NonStop and CLIM Software Overview

- Describe the Cluster I/O Protocol (CIP) software components
- NonStop Host
- CLIM

Module 4: Storage CLIM configuration and connectivity

- Describe Storage CLIM configuration
- Describe Storage CLIM connectivity

Module 5: IP and OPEN CLIM Configuration and connectivity

- Describe NonStop host and CLIM processes
- Describe the maintenance LAN including:
 - providers
 - TCP/IP processes
- Maintenance LAN configuration
- Describe CLIM interfaces
- Describe bonding
- Describe scf commands used for CLIM configuration
- Describe CLIMCMD commands for network configuration
- Describe the multi-provider CLIM capability

Module 6: CLIM Troubleshooting

- Describe how to Identify a Failure
- Describe how to Categorize the Failure
- Describe how to Collect the Data
- Describe Basic Analysis
- Describe Recovery

Onsite Delivery Equipment Requirements

- This course is NOT recommended for onsite training, only remote modality, due to the amount of equipment required to deliver it
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Course data sheet

Next steps

- Consider attending the other optional and advanced learning courses in the HPE NonStop Operations Management curriculum

Learn more at
hpe.com/ww/learnnonstop

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