



# HPE Integrity NonStop X Server Administration I H6C39S

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|--------------------------------------------|--------------------------|
| HPE course number                          | H6C39S                   |
| Course length                              | 5 days                   |
| Delivery mode                              | ILT/VILT                 |
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Receive an overview of the HPE Integrity NonStop™ X server architecture and basic software functionality, including functions of OSM, TACL, and Subsystem Control Facility (SCF) for system, disk drive, tape drive, and communications lines monitoring. Additional topics include functional command use to allow monitoring system files with the use of FUP and monitoring the system spooler with PERUSE and SPOOLCOM commands. The course is 80 percent lecture and 20 percent hands-on labs using HPE Integrity NonStop X servers.

## 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
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## Audience

- System operators and system administrators
- System analysts and technical support analysts

## Prerequisites

- Concepts and Facilities for HPE NonStop Systems (U4147S) or
- At least 6 months operational experience on NonStop servers

## Course objectives

- At the conclusion of this course, you should be able to:
- Describe computing environments and operator tasks
  - Be familiar with the HPE Integrity NonStop X BladeSystem server architecture, OSM, TACL, and SCF commands

- Start up, monitor, and shut down your HPE Integrity NonStop X BladeSystem server and its subsystems
- Change system configuration and recover from a previous setup
- Demonstrate the use of TACL, FUP, and SCF commands
- Describe how to manage security, disks, tapes, processes, and applications and identify and resolve common problems
- View, modify, and correct system spooler and print job problems

## Benefits to you

- Gain skills and knowledge needed to optimize HPE Integrity NonStop X BladeSystem servers so users experience smooth functioning IT operations
- Obtain valuable hands-on experience using OSM, TACL, and SCF commands

\*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

## Detailed course outline

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### Module 1: Course Overview

#### Module 2: Computing Environments and Operator Tasks

- Basic data processing
- Multiprogramming
- HPE Integrity NonStop X BladeSystem operations
- Problem solving and problem prevention

#### Module 3: HPE Integrity NonStop X BladeSystem Architecture

- HPE NonStop server portfolio
- Taking NonStop to server blades
- Integrity NonStop X basics
- Available Integrity NonStop X BladeSystems
- NonStop X BladeSystems: NS7 X1 and NS3 X1
- Scalability and migration/coexistence
- Modes of execution and CLIM (I/O) products
- NonStop server power configurations
- Maintenance architecture
- CLIM Maintenance Entity Unit (MEU)
- Mirrored disk volumes

#### Module 4: Operator Tools: TACL, OSM, and SCF

- Introduction to TACL and the TACL environment
- Open System Management (OSM) overview
- Monitoring enclosures, hardware, and software
- Event Management Service (EMS)
- Monitoring processors
- The Subsystem Control Facility (SCF)
- Monitoring disks, printers, tape drives, and terminals

#### Module 5: Managing Files

- File system introduction
- The File Utility Program (FUP)

#### Module 6: Managing Security

- Types of security issues
- Managing NonStop operating system security

#### Module 7: Managing Disks and Tapes

- Disk volumes
- Introduction to the CLIM and legacy storage subsystems
- SCF CLIM disk drive actions
- Checking disk drive actions
- Tapes and tape drives
- BACKUP and RESTORE operations
- Backup and restore operations for OSS and NonStop SQL/MX
- Labeled-tape operations using MEDIACOM
- Common tape problems

#### Module 8: Managing Processes and Applications

- Processes—background
- Common process problems
- Pathway/iTS applications
- Client/server applications
- NonStop Transaction Management Facility (TMF)

#### Module 9: Managing Printers and the Spooler

- Spooler concepts
  - Common spooler and printer problems
  - Working with spooler jobs: PERUSE
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## Course data sheet

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### Module 10: Managing LANs and WANs

- Networking Cluster I/O Module (IP CLIM)
- SCF CLIM commands
- NonStop Expand connectivity
- Common problems—legacy connections

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### Onsite Delivery Equipment Requirements

- One 2-processor HPE Integrity NonStop X BladeSystem NS7 X1 or NS3 X1 server with L15.02 or later version of the NonStop operating system
  - One PC per student in the class with connectivity to the HPE Integrity NonStop X BladeSystem server
  - One HPE Integrity NonStop X BladeSystem NS7 X1 or NS3 X1 server with access to the NonStop system console
  - Spooler and associated software installed on the server
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## Next steps

- HPE Integrity NonStop X Server Administration II (H6C40S)

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