



HP Integrity NonStop X Field Support Training H6C37S

This course provides the knowledge needed to perform preventative and corrective maintenance on an HP Integrity NonStop X server. Learn about the InfiniBand hardware and software infrastructure. Use the new and existing OSM tools to start, operate, manage, and maintain the server. Install, configure, and troubleshoot an X server based storage and communications subsystems. Perform NonStop X server FRU removal and replacement. Perform expansion and/or reduction of an X server. This course is 75 percent lecture and 25 percent hands-on labs using HP Integrity NonStop X servers.

HP Integrity NonStop X Field Support Training

Price USD \$4,000

Links to local schedules, pricing and registration [US/Canada](#)
[Mexico/Latin America](#)
[Brazil](#)

HP course # H6C37S

Category NonStop

Duration 5 days

Audience

- Account or support engineers and customer service personnel who are responsible for installing and maintaining the HP Integrity NonStop X system and NonStop operating system

Prerequisites

- Introduction to HP NonStop Field Support (HK286S) or equivalent NonStop experience and
- HP NonStop NB-series Field Support (HG768S) and
- At least six months experience maintaining NonStop systems

Course objectives

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

- Describe the new hardware components of the NonStop X BladeSystem
- Describe the InfiniBand infrastructure including both hardware and software
- Use the new and existing Open System Management (OSM) tools to start, operate, manage, and maintain the NonStop X BladeSystem
- Describe the changes made to the system configuration for the NonStop X BladeSystem
- Install, configure, and troubleshoot a NonStop X BladeSystem
- Install, configure, and troubleshoot the NonStop X BladeSystem Cluster I/O Module (CLIM) based storage subsystem and communications subsystems
- Perform NonStop X FRU removal and replacement as required
- List the migration issues relating to the new NonStop X BladeSystem
- Perform expansion and/or reduction of a NonStop X BladeSystem

Benefits to you

- Streamline application migration tasks and increase your productivity by knowing where and how the application needs to be adjusted and being familiar with how to utilize compilation and debugging utilities including the xld linker, Native Inspect, and NonStop Development Environment for Eclipse (NSDEE)
- Gain valuable hands-on experience compiling, executing, creating, and debugging multiple source file programs

Next steps

- HP NonStop CLIM Support Workshop (HK595S)
- Consider attending the other optional and advanced courses in the HP NonStop Operations Management curriculum

Course outline

Module 1: Introduction

- NonStop strategy execution and roadmap
- NonStop on x86 architecture
- NonStop on x86 vs. Itanium
- Products not included for NonStop X
- Features not included in L15.02
- Features included in L15.08
- L-series application migration guide
- NonStop X documentation

Module 2: NonStop X CPU Blade and Interconnect Hardware

- Hardware changes between NB56000c and NonStop X systems
- BL460c x86 CPU blade
- Troubleshooting BL460c
- InfiniBand interconnect hardware
- Intelligent rack and power
- Lab activity

Module 3: NonStop X OS and InfiniBand Overview

- InfiniBand logical and physical interconnect
- Maintenance LAN interconnect
- Software architecture
- Maintenance Entity Units (MEUs)
- Halted State Services (HSS)
- Lab activity

Module 4: NonStop X CLIM Overview

- Changes made to CLIMs used with NonStop X systems
- CLIM environment on the NonStop X systems
- Modified SCF commands for CLIMs
- Lab activity

Module 5: New OSM Console Tools for NonStop X Systems

- System startup and configuration tools
- CLIM receive dump action
- HSS/HCA Firmware Management tool
- Down System CLIM Management tool
- Quick Start tool
- OSM service connection changes
- IBNETDISCOVER command
- Event Viewer changes
- Lab activity

Module 6: NonStop X Hardware Removal and Replacement

- Removal and replacement procedures for NonStop X BladeSystem FRUs and InfiniBand switch
- Lab activity

Module 7: NonStop X Data Migration

- Strategy
- Products supported
- Multiple ways to migrate
- FUP version L01 compatibility and migration

Learn more at

hpe.com/us/training/nonstop