

# HP Education Services

HP NonStop NS-series Server Administration I (U8528S)



This course prepares you to operate and administer the HP NonStop NS-series server. You are introduced to the architecture and basic software functionality, including Open System Management (OSM), TACL, and Subsystem Control Facility (SCF) for system, disk drive, tape drive, and communications lines monitoring. Functional command usage to monitor files and the system spooler are also covered. This five-day course is 80 percent lecture and 20 percent hands-on labs using HP servers.

## Audience

- System operators
- System administrators
- System analysts
- Technical support analysts

## Prerequisites

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

## Course Objective

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

- Be familiar with the NonStop NS-series server architecture, OSM, TACL, and SCF
- Describe the purpose and function of OLTP, query processing, decision support, and messaging systems
- Demonstrate the use of TACL, FUP, and SCF commands to monitor the server, files, disks, tapes, and communication lines
- Demonstrate how to view, modify, and correct system spooler and print job problems using PERUSE and SPOOLCOM
- Describe how to monitor and manage LAN and WAN environments
- Describe how to manage security, disks, tapes, processes, and applications

## Benefits to You

- Gain skills and knowledge needed to optimize NS-series servers so users experience smooth functioning IT operations

## Why education services from HP?

- Focus on job-specific skills
- Hands-on practice
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- More than 80 training locations worldwide
- Customized on-site delivery

---

**Course Title:** HP NonStop NS-series Server Administration I

---

**HP Product Number:** U8528S

---

**Category/Subcategory:** NonStop/System Operations and Management

---

**Course Length:** 5 days

---

**Level:** Intermediate

---

**Delivery Language:** English

---

**To Order:** To review course schedules and to register for a course, visit [www.hp.com/learn/nonstop](http://www.hp.com/learn/nonstop) and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

---

**Next Steps:** NonStop NS-series Server Administration II (U8638S)

---

## Detailed Course Outline

### Module 1 - Course Overview

- Who should attend
- Course objectives
- Course outline
- Class schedule

### Module 2 - Computing Environments and Operator Tasks

- Basic data processing
- NonStop server operations
- Problem solving and problem prevention

### Module 3 - NonStop NS-series Server Architecture

- NonStop Advanced Architecture (NSAA) overview
- The modular cabinet
- The ServerNet environment
- Maintenance architecture
- Miscellaneous information

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

- Introduction to TACL
- 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
- Lab: monitoring system hardware; SCF and hardware monitoring

### Module 5 - Managing Files

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

### Module 6 - Managing Security

- Background
- Managing NonStop operating system security
- Common security problems

### Module 7 - Managing Disks and Tapes

- Introduction to the storage subsystem
- Checking disk drive actions
- Tapes and tape drives
- BACKUP and RESTORE operations
- Labeled-tape operations using MEDIACOM
- Common tape problems
- Lab: the Disk Space Analysis Program (DSAP)

### Module 8 - Managing Processes and Applications

- Processes (background)
- Common process problems
- Pathway/iTS applications
- Client/server applications
- NonStop Transaction Management Facility (TMF)
- Lab: monitoring and manipulating processes

### Module 9 - Managing Printers and the Spooler

- Background
- Common spooler and printer problems
- Working with spooler jobs (peruse)
- Lab: printers and the spooler

## **Module 10 - Managing LANs and WANs**

- ServerNet communications subsystems
- Common problems

## **Module 11 - Introduction to HP Integrity NS14x00 and NS1x00**

- NonStop NS14x00 server hardware and software
- NonStop NS1x00 server hardware and software
- rx2660 introduction and hardware overview

## **Appendix (optional) - Introduction to HP Integrity Carrier Grade Systems**

- Introduce NS-16000CG servers
- Introduce NS-5000CG servers and NS-5000T servers

## **Onsite Delivery Equipment Requirements**

- Connectivity to one NS-series server with super.group TAFL logons, a working service connection, and a working Low-Level Link connectivity with logon information
- One PC workstation per student with OutsideView, the latest NS-series OSM software including the latest Low-Level Link version installed
- One instructor PC workstation with PowerPoint, OutsideView, and the latest NS-series OSM software including the latest Low-Level Link version installed
- PC projector and suitable screen
- Internet access for classroom

© 2008 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

ver c.00, August 2008

To review course schedules and to register for a course, visit [www.hp.com/learn/nonstop](http://www.hp.com/learn/nonstop) and select your country from the drop down menu.

