



HP TRAINING

# Hp Ux Shell Programming

*Master HP-UX shell scripting to automate tasks and manage systems efficiently. Enhance your command-line expertise.*

DURATION

**Flexible**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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## COURSE OVERVIEW

This intermediate-level HP-UX Shell Programming course is meticulously designed to equip IT professionals with the essential skills for automating tasks, managing systems, and performing complex data manipulations within the HP-UX environment. Participants will delve deep into the intricacies of various shell types, including the Bourne Shell (sh), Korn Shell (ksh), and C Shell (csh), mastering their syntax, capabilities, and best practices for robust script development. The course emphasizes practical application, providing hands-on experience with powerful Unix utilities like `grep`, `sed`, and `awk` to parse logs, transform data, and generate reports efficiently, making it invaluable for anyone looking to optimize their HP-UX system management. Mastering HP-UX shell programming offers significant professional benefits, particularly for those working with critical enterprise systems that rely on HP's robust Unix platform. Graduates will gain the ability to significantly enhance operational efficiency through automation, reduce manual intervention in routine tasks, and quickly diagnose and resolve system issues using custom scripts. This specialized skill set is highly sought after in organizations maintaining HP-UX infrastructure, positioning certified individuals as key contributors to system stability, security, and performance. Elevate your technical proficiency and become an indispensable asset in any HP-UX-centric IT landscape.

|        |              |
|--------|--------------|
| Level  | Intermediate |
| Vendor | HP           |

## COURSE CURRICULUM

### 01 Module 1: Introduction to HP-UX and Shell Fundamentals

- Overview of HP-UX operating system architecture
- Introduction to various shells: Bourne (sh), Korn (ksh), C (csh)
- Basic shell commands and utilities: `ls`, `cd`, `pwd`, `mkdir`, `rm`, `cp`, `mv`
- Understanding file system hierarchy and permissions
- I/O Redirection and Pipes

### 02 Module 2: Shell Scripting Basics and Variables

- Creating and executing your first shell script
- Comments, shebang line, and script permissions
- Shell variables: declaring, assigning, and accessing
- Special shell variables and command-line arguments
- Arithmetic operations and expressions

### 03 Module 3: Control Flow and Functions

- Conditional statements: `if-then-else`, `case` statements
- Looping constructs: `for`, `while`, `until` loops
- Break and continue statements
- Creating and using shell functions
- Parameter passing and return values in functions

### 04 Module 4: Advanced Text Processing with `grep`, `sed`, and `awk`

- Pattern matching with `grep` and regular expressions
- Stream editor (`sed`): substitutions, deletions, insertions
- AWK programming language: records, fields, patterns, actions
- Combining `grep`, `sed`, and `awk` for complex data manipulation
- Practical examples: log file analysis, report generation

### Module 5: Script Debugging, Best Practices, and Automation

- 05**
- Debugging shell scripts: ``set -x``, ``set -v``, ``trap``
  - Error handling and exit statuses
  - Introduction to ``cron`` for scheduling tasks
  - Shell scripting best practices: readability, portability, security
  - Version control basics for scripts

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **HP-UX Systems Administrator specializing in automation and scripting**
- > **Senior DevOps Engineer for enterprise systems leveraging HP-UX**
- > **IT Operations Analyst focused on system monitoring and custom tool development within Unix environments**

## FREQUENTLY ASKED QUESTIONS

**Q: What foundational HP-UX experience or knowledge is required before enrolling in this Shell Programming course?**

While this course is designed for intermediate users, participants should have a basic understanding of the HP-UX operating system, including familiarity with navigating the file system, executing fundamental commands, and a conceptual grasp of what a command-line interface entails. Prior exposure to any scripting language is beneficial but not strictly required, as the course builds from fundamental shell concepts.

**Q: How will mastering HP-UX shell programming directly impact my ability to manage and troubleshoot enterprise-level HP-UX systems?**

Mastering HP-UX shell programming will profoundly enhance your capabilities in managing and troubleshooting enterprise systems. You'll gain the critical skills to automate routine administration tasks such as user management, backup procedures, and log file analysis, significantly reducing manual effort and potential errors. Furthermore, you'll be able to quickly develop custom scripts to diagnose specific performance issues, monitor system health proactively, and implement rapid solutions, making you an indispensable asset in maintaining the stability and efficiency of complex HP-UX environments.

**Q: Are there specific differences in shell scripting on HP-UX compared to other Unix-like systems (e.g., Linux) that this course addresses?**

Yes, while core shell scripting principles are largely portable, this course specifically highlights nuances and best practices unique to the HP-UX environment. This includes discussions around HP-UX specific utilities, filesystem structures, potential command variations, and common challenges encountered when scripting on HP-UX, ensuring that the skills learned are directly applicable and optimized for this particular operating system rather than a generic Unix environment.

## ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

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**READY TO ENROL?**

Take the next step in your technology career.

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