



HP TRAINING

Hp Ux Posix Shell Programming

Master HP-UX POSIX shell scripting to automate tasks and develop powerful command-line applications.

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 POSIX Shell Programming course is meticulously designed for IT professionals, system administrators, and developers who need to harness the full power of scripting within the HP-UX operating system. Participants will delve deep into the POSIX-compliant shell, mastering its syntax, powerful utilities, and best practices to automate complex administrative tasks, develop custom system tools, and streamline operations in demanding enterprise environments. The course focuses on building robust, efficient, and maintainable scripts that significantly enhance productivity and system reliability on HP-UX platforms.

Throughout this engaging program, you will gain hands-on experience with core technologies such as the Korn Shell (ksh) and Bourne Again Shell (bash) – the predominant POSIX-compliant shells on HP-UX – alongside essential Unix/Linux utilities like `grep`, `sed`, `awk`, and `find`. You'll learn to craft intricate scripts for process management, file system manipulation, system monitoring, and data processing. By the end of the course, you will be adept at solving real-world challenges through intelligent automation, ensuring your HP-UX infrastructure runs optimally and securely.

Level	Intermediate
Vendor	HP

COURSE CURRICULUM

01 Module 1: HP-UX and POSIX Shell Fundamentals

- Introduction to HP-UX environment and command-line interface
- Understanding POSIX shell concepts and variants (ksh, bash)
- Basic shell commands, arguments, and options
- File system navigation and manipulation in HP-UX
- Input/output redirection and piping
- Environment variables and shell initialization files

02 Module 2: Shell Scripting Essentials and Control Flow

- Creating and executing shell scripts
- Variables, data types, and arithmetic operations
- Conditional statements: `if`, `case`
- Looping constructs: `for`, `while`, `until`
- Functions: defining, calling, and scope
- Command substitution and parameter expansion

03 Module 3: Advanced Text Processing and Regular Expressions

- Introduction to regular expressions (regex)
- Using `grep` for pattern matching
- Stream editor `sed` for text transformation
- `awk` for data extraction and reporting
- Combining utilities for complex text processing tasks
- File comparison utilities: `diff`, `cmp`

04 Module 4: System Automation and Process Management

- Process management: `ps`, `kill`, `nohup`, `jobs`, `fg`, `bg`
- Scheduling tasks with `cron` and `at`
- Monitoring system resources: `top`, `vmstat`, `iostat`
- User and group management scripting

- Disk space management and cleanup scripts
- Introduction to `find` and `xargs` for complex file operations

05 Module 5: Robust Scripting and Error Handling

- Debugging shell scripts: `set -x`, `set -v`, `trap`
- Error handling and exit statuses
- Input validation and argument parsing
- Writing secure and portable shell scripts
- Best practices for script documentation and maintenance
- Developing practical automation solutions for HP-UX administration

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **HP-UX System Administrator**
- > **Unix/Linux Automation Specialist**
- > **DevOps Engineer (focused on legacy systems and infrastructure automation)**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites for enrolling in the HP-UX POSIX Shell Programming course?

This is an intermediate-level course, and it is highly recommended that participants have a solid foundational understanding of the HP-UX operating system. This includes familiarity with basic command-line operations, file system navigation, common HP-UX utilities, and general concepts of a Unix-like environment. While prior scripting experience is beneficial, it is not strictly required as the course covers POSIX shell fundamentals comprehensively.

Q: How will mastering HP-UX POSIX shell programming specifically enhance my career opportunities within IT infrastructure roles?

Proficiency in HP-UX POSIX shell programming is a highly valuable skill for IT professionals working with HP-UX environments, often found in large enterprises with mission-critical systems. It significantly boosts your ability to automate tedious administrative tasks, develop custom monitoring and reporting tools, streamline deployment processes, and troubleshoot complex system issues efficiently. This expertise makes you an indispensable asset in roles requiring deep operational control and automation on HP-UX servers, opening doors to advanced system administration, infrastructure automation, and specialized DevOps positions.

Q: What practical automation tasks will I be capable of implementing immediately after completing this course?

Upon successful completion of this course, you will possess the skills to implement a wide array of practical automation solutions tailored for HP-UX. This includes, but is not limited to, automating routine system backups and restoration procedures, developing scripts for automated log file analysis and alerts, creating tools for proactive system health checks and performance monitoring, scripting user account provisioning and management, and building custom utilities to manage file systems and processes, all designed to enhance efficiency and reliability in your HP-UX environment.

ABOUT COMPUTER PRIDE



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

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READY TO ENROL?

Take the next step in your technology career.

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