



LINUX TRAINING

Linux Unix Shell Scripting Python And Perl Course

Master Linux, Unix, Shell Scripting, Python, and Perl to automate tasks and develop powerful command-line solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Unlock the power of automation and system management with Computer Pride's intensive Linux Unix Shell Scripting Python And Perl Course. This intermediate-level program is designed for IT professionals, system administrators, and developers looking to significantly enhance their command-line proficiency and scripting capabilities across multiple powerful languages. You'll gain practical experience in leveraging the robust Unix/Linux environment to streamline tasks, automate complex workflows, and efficiently manage systems.

This course demystifies the art of scripting, covering essential shell scripting techniques for everyday administrative tasks, alongside foundational Python and Perl programming for more advanced automation and data processing. By mastering these core technologies, you will be equipped to write scripts that solve real-world problems, from log file analysis and user management to deploying applications and orchestrating system operations. The skills acquired are highly sought after in today's technology landscape, providing a strong competitive edge.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Unix/Linux Command Line & Fundamentals

- Navigating the Unix/Linux Filesystem
- Essential Command Line Utilities (ls, cd, cp, mv, rm, mkdir, rmdir)
- File Permissions and Ownership (chmod, chown)
- Input/Output Redirection and Pipes
- Introduction to Text Processing Tools (grep, sed, awk)

02 Module 2: Practical Shell Scripting with Bash

- Script Structure and Execution
- Variables, User Input, and Command Line Arguments
- Conditional Logic (if/else, case statements)
- Looping Constructs (for, while, until)
- Functions and Error Handling in Scripts

03 Module 3: Python for System Automation

- Python Basics (Syntax, Data Types, Control Flow)
- Working with Files and Directories (os module)
- Executing External Commands (subprocess module)
- Basic Scripting for Administrative Tasks (e.g., file cleanup, process monitoring)
- Introduction to Python Error Handling and Debugging

04 Module 4: Perl for Text Processing and Reporting

- Perl Fundamentals (Variables, Scalars, Arrays, Hashes)
- Regular Expressions for Pattern Matching and Manipulation
- File I/O and String Operations
- Perl for Log File Analysis and Data Extraction
- Integrating Perl Scripts into System Workflows

05 Module 5: Advanced Scripting & Best Practices

- Combining Shell, Python, and Perl for Complex Tasks
- Script Optimization and Performance Considerations
- Logging and Reporting in Scripts
- Version Control Basics for Scripts
- Real-world Automation Scenarios and Project Examples

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Linux Systems Automation Engineer**
- > **DevOps Scripting Specialist**
- > **IT Operations Analyst (with advanced scripting focus)**

FREQUENTLY ASKED QUESTIONS

Q: Given the 'Intermediate' level and the breadth of topics (Shell, Python, Perl) covered in a short duration, what level of practical scripting proficiency can I realistically expect to achieve?

This course is designed to provide a foundational yet intensive introduction to essential scripting concepts and practical applications across Bash, Python, and Perl, specifically for system automation and management. You will gain the critical understanding and hands-on skills to write effective scripts for common administrative tasks, understand existing scripts, and build a strong base for further specialization in any of these languages. The focus is on immediate applicability for IT professionals.

Q: What are the recommended prerequisites or prior technical skills for someone to benefit most from this Linux Unix Shell Scripting Python And Perl Course?

To get the most out of this intermediate course, it is recommended that participants have a basic familiarity with the Linux/Unix command line environment and fundamental operating system concepts. While no prior programming experience is strictly required, an analytical mindset and comfort with problem-solving will be highly beneficial. This course is not suitable for absolute beginners to IT or command-line interfaces.

Q: How will the scripting skills learned in this course directly contribute to my professional development as a System Administrator or aspiring DevOps professional?

Mastering the scripting techniques taught in this course will profoundly enhance your efficiency and effectiveness. As a System Administrator, you'll automate repetitive tasks, manage configurations, and troubleshoot issues much faster. For aspiring DevOps professionals, these scripting skills are fundamental for infrastructure as code, continuous integration/delivery pipelines, and automating deployment processes, making you an indispensable asset in modern IT environments.

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

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

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