



LINUX TRAINING

Linux Tools Software Development Lfd108x Course

Master Linux tools for software development with LFD108x. Learn to build, debug, and deploy applications efficiently.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intensive 2-hour "Linux Tools Software Development Lfd108x Course" provides developers with the essential command-line tools and workflows necessary to thrive in a Linux-centric development environment. You'll delve into powerful utilities for text processing, file manipulation, and process management, gaining a profound understanding of how to leverage the Linux ecosystem for increased productivity and efficiency. The course emphasizes practical application, ensuring you can immediately apply these skills to streamline your development tasks. By mastering the core technologies covered, including advanced shell scripting, efficient use of common development tools like grep, awk, sed, find, and fundamental version control integration, participants will significantly enhance their ability to build, debug, and maintain software projects on Linux. This expertise not only accelerates individual development cycles but also fosters better collaboration within teams, enabling robust and scalable software solutions. Unlock the full potential of your Linux development environment and elevate your professional impact.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Foundations of Linux Development Environment

- Navigating the Linux Filesystem with advanced commands
- Process Management and Monitoring (ps, top, kill, systemctl)
- User and Permissions Management for development security
- Introduction to Shell Scripting for automation

02 Module 2: Essential Text Processing and File Manipulation Tools

- Using grep for pattern searching
- Advanced sed for stream editing
- Powerful awk for data extraction and reporting
- File comparison and patching with diff and patch

03 Module 3: Building and Debugging with Linux Utilities

- Introduction to make and Makefiles for project compilation
- Compiling C/C++ projects with gcc and g++
- Basic debugging techniques with gdb
- Analyzing program performance with strace and ltrace

04 Module 4: Version Control and Package Management Integration

- Git basics for source code management within Linux
- Understanding package managers (apt, yum, dnf) for dependency handling
- Building and installing software from source
- Environment variables and their role in development

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Linux Software Developer**
- > **DevOps Automation Specialist**
- > **Embedded Systems Programmer (with a focus on Linux OS)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational Linux knowledge should I have before taking this course?

To maximize your learning from this intermediate course, it is highly recommended to have a basic understanding of Linux commands, filesystem hierarchy, and how to navigate the terminal. Familiarity with any programming language (e.g., C, Python) and a conceptual understanding of software development lifecycles will also be beneficial, though not strictly required for the tool-centric focus.

Q: How does mastering these Linux tools specifically benefit my software development workflow?

This course is designed to empower you with tools that drastically improve efficiency. You will learn to automate repetitive tasks with shell scripting, quickly locate and modify code with advanced text utilities, streamline build processes with Makefiles, and effectively debug applications. This leads to faster development cycles, more robust code, and a more productive development experience overall by leveraging the full power of the Linux command line.

Q: Will this course cover containerization tools like Docker or Kubernetes?

While containerization is a crucial part of modern Linux-based development, this specific 2-hour "Linux Tools Software Development Lfd108x Course" focuses on foundational command-line utilities, scripting, and build tools directly on the Linux operating system. It provides the essential prerequisite skills for understanding and effectively using containerization platforms, but does not delve into Docker or Kubernetes itself.

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

10,000+

Professionals Trained

50+

Vendor Certifications

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Take the next step in your technology career.

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