

Soft-Train



At Soft-Train
Technology Works

CompTIA Linux+/Linux Professional Institute Certification (8 days) ST32005

COURSE GOAL: To prepare for the CompTIA Linux+ Certification Exams LX-101 and LX-102.

PREREQUISITES: CompTIA A+, Network+ and at least 12 months of Linux administration experience.

LEARNING OBJECTIVES:

Upon completion of this course the student will be able to:

- Install and configure Linux software
- Utilize Linux management and administrative techniques
- Manage Linux processes
- Utilize troubleshooting and performance skills

KEY TOPICS:

Part I – Exam LX0-101

I. Exploring Linux Command-Line Tools

- A. Understanding Command-Line Basics
- B. Using Streams, Redirection and Pipes
- C. Processing Text Using Filters
- D. Using Regular Expressions
- E. Using *grep*
- F. Using *sed*

II. Managing Software

- A. Package Concepts
- B. Using RPM
- C. Using Debian Packages
- D. Converting Between Package Formats
- E. Package Dependencies and Conflicts
- F. Managing Shared Libraries
- G. Managing Processes

III. Configuring Hardware

- A. Configuring the BIOS and Core Hardware
- B. Configuring Expansion Cards
- C. Configuring USB Devices
- D. Configuring Hard Disks
- E. Designing a Hard Disk Layout
- F. Creating Partitions and Filesystems
- G. Maintaining Filesystem Health
- H. Mounting and Unmounting Filesystems

Part II – Exam LX0-102

IV. Managing Files

- A. Managing Files
- B. Managing File Ownership
- C. Controlling Access to Files
- D. Managing Disk Quotas
- E. Locating Files

V. Booting Linux and Editing Files

- A. Installing Boot Loaders
- B. Understanding the Boot Process
- C. Dealing with Runlevels and the Initialization Process
- D. Editing Files with Vi

VI. Configuring the X Window System, Localization and Printing

- A. Configuring Basic X Features
- B. Configuring X Fonts
- C. Managing GUI Logins
- D. Using X for Remote Access
- E. X Accessibility
- F. Configuring Localization and Internationalization
- G. Configuring Printing

VII. Administering the System

- A. Managing Users and Groups
- B. Tuning User and System Environments
- C. Using System Log Files
- D. Maintaining the System Time
- E. Running Jobs in the Future

VIII. Configuring Basic Networking

- A. Understanding TCP/IP Networking
- B. Understanding Network Addressing
- C. Configuring Linux for a Local Network
- D. Diagnosing Network Connections

IX. Writing Scripts, Configuring E-Mail and Using Databases

- A. Managing the Shell Environment
- B. Writing Scripts
- C. Managing E-Mail
- D. Managing Data with SQL

X. Securing Your System

- A. Administering Network Security
- B. Administering Local Security
- C. Configuring SSH
- D. Using GPG