



Overview

The Official CompTIA® Linux+® Powered by LPI Instructor Guide (Exams LX0-103 and LX0-104) course builds on your existing user-level knowledge and experience with the Linux operating system to present fundamental skills and concepts that you will use on the job in any type of Linux career.

This course can benefit you in two ways. If your job duties include Linux troubleshooting, installation, or maintenance, or if you are preparing for any type of Linux-related career, it provides the background knowledge and skills you will require to be successful. In addition, if you intend to pass the CompTIA® Linux+® Powered by LPI certification examination (LX0-103 and LX0-104) this course can be a significant part of your preparation.



Duration

5 Days (08:30 - 16:00)



Audience Profile

This course is intended for entry-level computer support professionals with basic knowledge of computer hardware, software, and operating systems, who wish to increase their knowledge and understanding of Linux concepts and skills to prepare for a career in Linux support or administration, or to prepare for the CompTIA® Linux+® certification examination. A typical student in this course should have at least 6 to 12 months of Linux experience.



Pre-requisites

To ensure your success, CompTIA® A+®is helpful but not required.



Course Accreditations

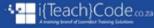
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Course Outline

Lesson 1: Performing Basic Linux Tasks

- Topic A: Identify the History and Development of Linux
- Topic B: Enter Shell Commands
- Topic C: Get Help Using Linux
- Topic D: Start and Stop Linux

Lesson 2: Managing User and Group Accounts

- Topic A: Create User and Group Accounts
- Topic B: Configure User Profiles
- Topic C: Administer User and Group Accounts

Lesson 3: Managing Partitions and the Linux Filesystem

- Topic A: Create Partitions
- Topic B: Navigate Through the Linux Filesystem
- Topic C: Manage the Filesystem
- Topic D: Maintain the Filesystem

Lesson 4: Managing Files in Linux

- Topic A: Create and Edit Text Files
- Topic B: Locate Files
- Topic C: Search Text Using Regular Expressions
- Topic D: Apply Filters to Text Streams
- Topic E: Link Files
- Topic F: Back Up and Restore Files
- Topic G: Manage Databases Using MariaDB

Lesson 5: Managing Linux Permissions and Ownership

- Topic A: Modify File and Directory Permissions
- Topic B: Modify Default Permissions
- Topic C: Modify File and Directory Ownership
- Topic D: Set Special Permissions and Attributes

Lesson 6: Printing Files

- Topic A: Configure a Local Printer
- Topic B: Print Files
- Topic C: Configure Remote Printing

Lesson 7: Managing Packages

- Topic A: Manage Packages Using RPM
- Topic B: Verify Packages
- Topic C: Upgrade Packages
- Topic D: Configure Repositories













Lesson 8: Managing Kernel Services

- Topic A: Explore the Linux Kernel
- Topic B: Customize Kernel Modules
- Topic C: Create an initrd Image
- Topic D: Manage Device Drivers and Hardware Devices
- Topic E: Monitor Processes and Resources

Lesson 9: Working with the Bash Shell and Shell Scripts

- Topic A: Perform Basic Bash Shell Operations
- Topic B: Write a Bash Shell Script
- Topic C: Customize the Bash Shell
- Topic D: Redirect Standard Input and Output
- Topic E: Use Control Statements in Shell Scripts

Lesson 10: Managing Jobs and Processes

- Topic A: Manage Jobs and Background Processes
- Topic B: Manage Processes Using the Process Table
- Topic C: Delay and Detach Jobs
- Topic D: Schedule Jobs
- Topic E: Maintain the System Time

Lesson 11: Managing System Services

- Topic A: Configure System Services
- Topic B: Monitor System Logs
- Topic C: Configure Security-Enhanced Linux (SELinux)

Lesson 12: Configuring Network Services

- Topic A: Connect to a Network
- Topic B: Configure Routes
- Topic C: Configure Client Network Services
- Topic D: Manage Remote Network Systems

Lesson 13: Configuring Basic Internet Services

- Topic A: Configure Email Services
- Topic B: Control Internet Services

Lesson 14: Securing Linux

- Topic A: Implement Basic System Security
- Topic B: Secure User Accounts

Lesson 15: Managing Hardware

Topic A: Identify Common Hardware Components and Resources













- Topic B: Configure Removable Hardware
- Topic C: Configure Disk Quotas

Lesson 16: Troubleshooting Linux Systems

- Topic A: Troubleshoot System-Based Issues
- Topic B: Troubleshoot Hardware Issues
- Topic C: Troubleshoot Network Connection and Security Issues

Lesson 17: Installing Linux

- Topic A: Prepare for Installation
- Topic B: The Linux Boot Process
- Topic C: Configure GRUB
- Topic D: Install the Operating System

Lesson 18: Configuring the GUI

- Topic A: Implement X
- Topic B: Customize the Display Manager
- Topic C: Enable Accessibility Settings in Linux









