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# CompTIA Linux+

(Exam Code : LX0-103 & LX0-104)

## **Course Objective:**

CompTIA Linux+ Powered by LPI is a high-stakes, vendor-neutral certification that validates the fundamental knowledge and skills required of junior Linux administrators. Junior Level Linux Administrator will be able to :

- Work at the Linux command line
- Perform easy maintenance task including assisting users, adding users to a larger system, executing backup and restore, shutdown and reboot
- Install and configure a workstation and connect it to a LAN, or a standalone PC via modem to the internet
- Acquire the fundamental skills and knowledge you need to successfully configure, manage and troubleshoot Linux systems

## **Prerequisite:**

CompTIA A+ or CompTIA N+ or 12 months of Linux administration experience.

## **Certificate Of Attendance:**

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

## **Training Duration:**

Full-time: 5 weekdays  
Time : 9.30am – 5.30pm

## **Course & Exam Fee :**

Course Fee : S\$2499  
Regn Fee : S\$50  
All fees subject to GST 7%. Course fee excludes CompTIA Exam.

## **Training Methodology & Materials:**

- Practical hands-on sessions to enhance concept.
- Well-designed lab sessions to enhance further understanding of the courseware.

## **DETAILED COURSE OUTLINE**

### **LX0-103**

#### **1.0 System Architecture**

- 1.1 Determine and Configure hardware settings
- 1.2 Boot the System
- 1.3 Change runlevels and shutdown or reboot system

#### **2.0 Linux Installation and Package Management**

- 2.1 Design hard disk layout
- 2.2 Install a boot manager
- 2.3 Manage shared libraries
- 2.4 Use Debian package management
- 2.5 Use RPM and YUM package management

#### **3.0 GNU and Unix Commands**

- 3.1 Work on the command line
- 3.2 Process text streams using filters
- 3.3 Perform basic file management
- 3.4 Use streams, pipes and redirects
- 3.5 Create, monitor and kill processes
- 3.6 Modify process execution priorities
- 3.7 Search text files using regular expressions
- 3.8 Perform basic file editing operations using vi

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#### **4.0 Devices, Linux Filesystems, Filesystem Hierarchy Standard**

- 4.1 Create partitions and filesystems
- 4.2 Maintain the integrity of filesystems
- 4.3 Control mounting and unmounting of filesystems
- 4.4 Manage disk quotas
- 4.5 Manage file permission and ownership
- 4.6 Create and change hard and symbolic links
- 4.7 Find system files and place files in the correct location

#### **LX0-104**

#### **5.0 Sells, Scripting and Data Management**

- 5.1 Customize and use the shell environment
- 5.2 Customize or write simple scripts
- 5.3 SQL data management

#### **6.0 User Interfaces and Desktops**

- 6.1 Install and configure X11
- 6.2 Set up a display manager
- 6.3 Accessibility

#### **7.0 Administrative Tasks**

- 7.1 Manage user and group accounts and related system files
- 7.2 Automate system administration tasks by scheduling jobs
- 7.3 Localization and internationalization

#### **8.0 Essential System Services**

- 8.1 Maintain system time
- 8.2 System logging
- 8.3 Mail Transfer Agent (MTA) basics
- 8.4 Manage printers and printing

#### **9.0 Networking Fundamentals**

- 9.1 Fundamentals of Internet protocols
- 9.2 Basic network configuration
- 9.3 Basic network troubleshooting
- 9.4 Configure client side DNS

#### **10.0 Security**

- 10.1 Perform security administration tasks
- 10.2 Set up host security
- 10.3 Securing data with encryption

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