



LINUX+ COURSE [POWERED BY LPI]

This certification validates the fundamental knowledge and skills required of IT technicians who will work with Linux system.

Students who pass this exam will have higher opportunities to become junior Linux administrator, junior network administrator, systems administrator, Linux database administrator and web administrator.

To become Linux+ certified students need to pass two exams. This course will cover all exams topics, including system architecture, Linux Installation and package management, Linux filesystems, and filesystem hierarchy standard, shells, scripting and data management, user interfaces and desktops, administrative tasks, networking fundamentals, security and more.

COURSE OUTLINE:

System Architecture

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

Linux Installation and Package Management

- Design hard disk layout
- Install a boot manager
- Manage shared libraries
- Use Debian package management
- Use RPM and YUM package management

GNU and Unix Commands

- Work on the command line
- Process text streams using filters
- Perform basic file management
- Use streams, pipes and redirects
- Create, monitor and kill processes
- Modify process execution priorities



- Search text files using regular expressions
- Perform basic file editing operations using vi

Devices, Linux Filesystems, Filesystem Hierarchy Standard

- Create partitions and filesystems
- Maintain the integrity of filesystems
- Control mounting and unmounting of filesystems
- Manage disk quotas
- Manage file permissions and ownership
- Create and change hard and symbolic links
- Find system files and place files in the correct location

Shells, Scripting and Data Management

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

User Interfaces and Desktops

- Install and configure X11
- Setup a display manager
- Accessibility

Administrative Tasks

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

Essential System Services

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

Networking Fundamentals

- Fundamentals of internet protocols
- Basic network configuration
- Basic network troubleshooting
- Configure client side DNS



Security

- Perform security administration tasks
- Setup host security
- Securing data with encryption