

CompTIA Linux+ Certification Training

Summary: Linux+ certification is an international industry credential that validates the knowledge of individuals with at least six months of practical Linux experience. Professionals who want to certify their technical knowledge in basic installation, operation and troubleshooting for Linux operating systems should consider this certification. The skills and knowledge measured by this examination were developed with global input to assure accuracy, validity and reliability.

Who Should Attend

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 CompTIA® Linux+™ Powered by LPI exams (Exam Codes: LX0–101 and LX0–102). A typical student in the CompTIA® Linux+™ Certification course should have at least 6 to 12 months of Linux experience.

CompTIA has introduced the Linux+ certification to measure foundation-level Linux operating system proficiency as a reliable indicator of employee success for both professionals and employers in:

- Installation
- Configuration
- Management
- Security
- Documentation
- Hardware

Course Content

Lesson 1: Familiarizing Yourself with Linux

- Review the History and Development of Linux
- Enter Shell Commands
- Get Help Using Linux
- Start and Stop Linux

Lesson 2: Managing User and Group Accounts

- Create User and Group Accounts
- Configure User Profiles
- Manage User and Group Accounts

Lesson 3: Managing Partitions and the Linux Filesystem

- Create Partitions
- Navigate through the Linux Filesystem
- Manage the Filesystem
- Maintain the Filesystem

Lesson 4: Managing Files in Linux

- Create and Edit Files
- Locate Files
- Search Text Using Regular Expressions
- Apply Filters to Text Streams
- Link Files
- Back Up and Restore Files
- Manage Databases Using MySQL

Lesson 5: Working with Linux Permissions and Ownership

- Modify File and Directory Permissions
- Modify Default Permissions
- Modify File and Directory Ownership
- Set Advanced Permissions

Lesson 6: Printing Files

- Configure a Local Printer
- Print Files
- Manage Print Jobs and Queues
- Configure Remote Printing

Lesson 7: Managing Packages

- Manage Packages Using RPM
- Verify Packages
- Upgrade Packages
- Configure Repositories
- Manage Packages Using YUM
- Manage Packages Using the Debian Package Manager
- Manage Packages Using Source Files
- Manage Shared Libraries

Lesson 8: Managing Kernel Services

- Explore the Linux Kernel
- Customize Kernel Modules
- Create an initrd Image
- Manage Device Drivers
- Monitor Hardware Devices
- Monitor Processes and Resources

Lesson 9: Working with the Bash Shell and Shell Scripts

- Perform Basic Bash Shell Operations
- Introduction to Shell Scripting
- Customize the Bash Shell
- Redirect Standard Input and Output
- Use Control Statements in Shell Scripts

Lesson 10: Managing Jobs and Processes

- Manage Jobs and Background Processes
- Manage Processes Using the Process Table
- Examine Delayed and Detached Jobs
- Schedule Jobs
- Maintain the System Time

Lesson 11: Managing System Services

- Configure System Services
- Monitor System Logs
- Configure SELinux

Lesson 12: Configuring Network Services

- Connect to a Network
- Configure Routes
- Configure Client Network Services
- Manage Remote Network Systems

Lesson 13: Configuring Basic Internet Services

- Configure Email Services
- Control Internet Services

Lesson 14: Securing Linux

- Examine the Basics of System

Security

- Secure User Accounts
- Enable Firewall Functionality
- Implement Security Auditing
- Describe the Intrusion Detection System

Lesson 15: Managing Hardware

- Identify Common Hardware Components and Resources
- Configure Removable Hardware
- Configure Disk Quotas

Lesson 16: Troubleshooting Linux Systems

- Troubleshoot System-Based Issues
- Troubleshoot Hardware Issues
- Troubleshoot Network Connection and Security Issues

Lesson 17: Installing Linux

- Prepare for Installation
- Identify Phases of the Linux Boot Sequence
- Configure GRUB
- Install the Operating System
- Perform Post-Installation Tasks

Lesson 18: Configuring the GUI

- Implement X
- Customize the Display Manager
- Customize the Window Environment
- Enable Accessibility Settings in Linux
