


# CompTIA Linux+ Training Course

CompTIA Linux+ certifies foundational skills in Linux operating systems, covering essential administration, configurations, and troubleshooting for IT professionals.

 SYS-101

## Course Outcomes

## Professional, practical, & hands-on live instructor-led training

Start as a beginner and graduate as a certified professional, with the skills, experience, and job-search know how to get your career started.

 Start Today

## Potential Career Tracks

Systems Engineer

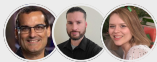
Network Administrator

Linux Systems Administrator

Security Analyst

DevOps Engineer

IT Support Specialist



Taught by Industry Veterans &  
World Class Instructors

## Introduction to CompTIA Linux+

### Course Overview

Intellectual Point's CompTIA Linux+ training program is designed to equip you with the essential knowledge and hands-on skills necessary to thrive as a Linux systems administrator. This course is aligned with the structure of the CompTIA Linux+ certification exam, ensuring you are prepared for both the test and real-world application. You will learn to effectively manage, configure, and troubleshoot Linux-based systems, providing a solid foundation for any IT infrastructure role. Throughout the program, you'll experience a balance of theoretical understanding and practical exercises, making sure you can confidently implement what you've learned.

Throughout the training, you will explore topics such as Linux system installation, maintenance, security, and network configuration. You will engage in practical labs to gain proficiency in managing users and groups, configuring storage, addressing system issues, and establishing security measures. By the end of the course, you will be prepared to pass the certification exam and apply your skills confidently in a work environment.

### Obtainable Skills

Network Configuration

Storage Management

Implementing Security Measures

Certification Exam Preparation

System Maintenance

Command-Line Proficiency

User and Group Management

System Troubleshooting

Linux System Configuration

## Course Insights

### Audience Profile

This CompTIA Linux+ course is specifically designed for IT professionals and technology enthusiasts eager to deepen their understanding of Linux environments. Ideal for aspiring system administrators, current network administrators, and IT support specialists seeking to broaden their expertise in system management. This course particularly benefits those looking to enhance their career prospects in the technology sector by acquiring a recognized certification. It is suitable for individuals with some experience in operating systems who are passionate about scaling their skills to include robust Linux management techniques.

### Course Outcomes

By the end of this course, participants will:

1 Successfully install and deploy Linux systems in a range of environments.

2 Configure and troubleshoot network settings to ensure seamless connectivity.

3 Manage user permissions and troubleshoot Linux configurations effectively.

4 Implement robust security protocols to protect system integrity and data privacy.

5 Achieve readiness for the CompTIA Linux+ certification, enhancing career prospects.

# Module by Module Learning *Outline*

6 Modules

## Module 1: Introduction to Linux Systems

### Learning Objectives:

- Understand the fundamental concepts of Linux operating systems.
- Familiarize with various Linux distributions and their uses.

### Topics Covered

#### Overview of Linux:

- History and evolution of Linux.
- Comparison of popular Linux distributions.

#### Linux Filesystem Hierarchy:

- Structure of the Linux filesystem.
- Important directories and their functions.

## Module 2: Linux System Installation and Deployment

### Learning Objectives:

- Acquire the skills to install and configure Linux environments.
- Learn the basics of deploying Linux systems in different scenarios.

### Topics Covered

#### Installation Methods:

- Different installation types: manual vs. automated
- Preparing systems for Linux installation.

#### Post-Installation Configuration:

- Setting up network configurations.
- Configuring system services.

## Module 3: Linux System Configuration and Management

### Learning Objectives:

- Gain proficiency in managing Linux system configurations.
- Understand permissions and access controls.

### Topics Covered

#### System Configuration Tools:

- Using tools for managing configurations.
- Editing system and software configurations.

#### Managing System Daemons:

- Starting, stopping, and managing system daemons.
- Understanding runlevels and targets.

## Module 4: User and Group Management

### Learning Objectives:

- Effectively manage users and groups in Linux.
- Understand permissions and access controls.

### Topics Covered

#### User Management:

- Creating, modifying, and deleting user accounts.
- Managing user profiles and preferences.

#### Group Management:

- Creating and managing user groups.
- Assigning permissions and group policies.

## Module 5: Linux Security and Permissions

### Learning Objectives:

- Implement security measures to safeguard Linux environments.
- Understand file permissions and secure data.

### Topics Covered

#### File Permissions:

- Setting and modifying file permissions.
- Understanding ownership and permission sets.

#### Security Best Practices:

- Implementing authentication mechanisms.
- Configuring firewalls and security logs.

## Module 6: Preparation for CompTIA Linux+ Certification Exam

### Learning Objectives:

- Review key concepts and skills for certification preparation.
- Apply acquired knowledge through practice exams and scenarios.

### Topics Covered

#### Exam Overview and Study Strategies:

- Overview of the CompTIA Linux+ exam structure.
- Tips and resources for effective preparation.

#### Practice Exams and Review Sessions:

- Simulated exam questions with explanations.
- Group discussions and doubt clearing sessions.