



PhoenixTS

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COMPTIA

# Linux+ Certification Training

Phoenix TS is proud to be a CompTIA Authorized Platinum Partner; which is the highest level of partnership awarded by CompTIA!



## Course Overview

Our 5-day instructor-led Linux+ training and certification boot camp in Washington, DC Metro, Tysons Corner, VA, Columbia, MD or Live Online will help anyone looking to pursue or further their career working with Linux-based technologies. Businesses are quickly noticing that Linux provides an economic and practical solution to fulfilling their business needs; the system continues to make exponential growth the mainstream IT infrastructure market. Many large companies such as IBM, Dell, HP, Xerox and Lenovo either recommend or require the Linux+ certification.

## Course Outline

### Preparing Your Environment

- Setting Up a Learning Space
- Exploring Linux Distributions



- Locating a Terminal

## Sifting Through Services

- What is a Linux Server?
- Serving the Basics
- Serving Local Networks
- Implementing Security
- Improving Performance

## Managing Files, Directories, and Text

- Handling Files and Directories
- Linking Files and Directories
- Reading Files
- Finding Information

## Searching and Analyzing Text

- Processing Text Files
- Redirecting Input and Output
- Editing Text Files

## Explaining the Boot Process

- The Linux Boot Process
- The Firmware Startup
- Linux Bootloaders
- System Recovery

## Maintaining System Startup and Services

- Looking at init
- Managing systemd Systems
- Managing SysV init Systems
- Digging Deeper into systemd

## Configuring Network Connections

- Configuring Network Features
- Basic Network Troubleshooting
- Advanced Network Troubleshooting



## Comparing GUIs

- Focusing on the GUI
- Serving Up the GUI
- Using Remote Desktops
- Forwarding

## Adjusting Localization Options

- Understanding Localization
- Setting Your Locale
- Looking at Time

## Administering Users and Groups

- Managing User Accounts
- Managing Groups
- Setting Up the Environment
- Querying Users
- Managing Disk Space Usage

## Handling Storage

- Storage Basics
- Partitioning Tools
- Understanding Filesystems
- Formatting Filesystems
- Mounting Filesystems
- Managing Filesystems
- Storage Alternatives

## Protecting Files

- Understanding Backup Types
- Looking at Compression Methods
- Comparing Archive and Restore Utilities
- Securing Offsite/Off-System Backups
- Checking Backup Integrity

## Governing Software

- Working with Source Code
- Packaging Applications



## Tending Kernel Modules

- Exploring Kernel Modules
- Installing Kernel Modules
- Removing Kernel Modules

## Applying Ownership and Permissions

- Looking at File and Directory Permissions
- Access Control Lists
- Context-Based Permissions
- Understanding Linux User Types
- Restricting Users

## Looking at Access and Authentication Methods

- Getting to Know PAM
- Exploring PKI Concepts
- Using SSH
- Using VPN as a Client

## Implementing Logging Services

- Understanding the Importance of Logging
- Basic Logging Using rsyslog
- Journaling with systemd-journald

## Overseeing Linux Firewalls

- Providing Access Control
- Looking at Firewall Technologies
- Forwarding IP Packets
- Dynamically Setting Rules

## Embracing Best Security Practices

- User Security
- System Security
- Network Security

## Analyzing System Properties and Remediation

- Troubleshooting the Network



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- Troubleshooting Storage Issues
- Troubleshooting the CPU
- Troubleshooting Memory
- Surviving a Lost root Password

## Optimizing Performance

- Looking at Processes
- Monitoring Processes in Real Time
- Managing Processes

## Investigating User Issues

- Troubleshooting Access
- Examining File Obstacles
- Exploring Environment and Shell Issues

## Dealing with Linux Devices

- Communicating with Linux Devices
- Working with Devices
- Using Hot Pluggable Devices

## Troubleshooting Application and Hardware Issues

- Dealing with Storage Problems
- Uncovering Application Permission Issues
- Analyzing Application Dependencies
- Looking at SELinux Context Violations
- Exploring Firewall Blockages
- Troubleshooting Additional Hardware Issues

## Deploying Bash Scripts

- The Basics of Shell Scripting
- Advanced Shell Scripting
- Writing Script Programs

## Automating Jobs

- Running Scripts in Background Mode
- Running Scripts Without a Console
- Sending Signals
- Job Control
- Running Like Clockwork



## Controlling Versions with Git

- Understanding Version Control
- Setting Up Your Git Environment
- Committing with Git
- Merging Versions

## Understanding Cloud and Virtualization Concepts

- Considering Cloud Services
- Understanding Virtualization
- Exploring Containers

## Inspecting Cloud and Virtualization Services

- Focusing on VM Tools
- Understanding Bootstrapping
- Exploring Storage Issues
- Considering Network Configurations

## Orchestrating the Environment

- Understanding Orchestration Concepts
- Provisioning the Data Center
- Looking at Container Orchestration Engines

## CompTIA Linux+ Exam XK0-004

### Exam Details:

- Number of Questions: Maximum of 90
- Passing Score: 720 on scale of 100-900
- Duration: 90 minutes
- Format: multiple choice and performance-based
- Delivery: Pearson VUE

Objectives	% of Exam
Hardware and System Configuration	21%
Systems Operations and Maintenance	26%
Security	19%
Linux Troubleshooting and Diagnostics	20%
Automation and Scripting	14%



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## FAQs

### Who should take this course?

Web Administrators  
Linux Database Administrators  
Networking Students  
Junior Linux Administrators  
Junior Network Administrators  
Systems Administrators

### What is the recommended experience for this course?

Students should have at least six months of practical work experience with Linux systems, CompTIA A+ and Network+ certifications or hold equivalent experience and knowledge.

### What companies hire CompTIA Linux+ professionals?

Examples include Dell, General Dynamics, Booz Allen Hamilton, Aetna, the U.S. Navy, and the Department of Defense.

### How much does the Linux+ XK0-004 exam cost?

As of October 1st 2019 the exam costs \$319 if purchased separate from a course.

### Does the CompTIA Linux+ certification require renewal?

Yes, Linux+ does require certification renewal every three years. To renew, certification holders must 50 continuing education units (CEUs) through completing activities as specified by the [CompTIA Continuing Education program](#).

## Call for Best Pricing





## Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

## Included in this **Linux+ Certification Training**

- 5 days instructor-led training
- Linux+ Certification Training training book
- Linux+ Certification Exam voucher with second chance voucher included
- Certificate of completion for up to 40 CEUs/CPEs to be used toward renewing relevant certifications
- Linux+ Certification Training course retake guarantee
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class\*
- Tea, coffee and soda available throughout the day\*
- Freshly baked cookies every afternoon\*