



CompTIA Linux+ Certification Course

Course Length: 5 Days

Overview: Our 5-day CompTIA Linux+ Powered by LPI Course covers the most current knowledge and vendor-neutral skills required for IT professionals working with Linux. This course will allow you to successfully perform maintenance tasks, assist users, and install and configure workstations.

Prerequisites: Students are recommended to have one year of technical networking and Linux administration experience.

Course Content

Lesson 1: Familiarizing Yourself with Linux

- Topic 1A: Review the History and Development of Linux
- Topic 1B: Enter Shell Commands
- Topic 1C: Get Help Using Linux
- Topic 1D: Start and Stop Linux

Lesson 2: Managing User and Group Accounts

- Topic 2A: Create User and Group Accounts
- Topic 2B: Configure User Profiles
- Topic 2C: Manage User and Group Accounts

Lesson 3: Managing Partitions and the Linux Filesystem

- Topic 3A: Create Partitions
- Topic 3B: Navigate through the Linux Filesystem
- Topic 3C: Manage the Filesystem
- Topic 3D: Maintain the Filesystem

Lesson 4: Managing Files in Linux

- Topic 4A: Create and Edit Files
- Topic 4B: Locate Files

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- Topic 4C: Link Files
- Topic 4D: Back Up and Restore Files
- Topic 4E: Manage Databases Using MySQL

Lesson 5: Working with Linux Permissions and Ownership

- Topic 5A: Modify File and Directory Permissions
- Topic 5B: Modify Default Permissions
- Topic 5C: Modify File and Directory Ownership
- Topic 5D: Set Advanced Permissions

Lesson 6: Printing Files

- Topic 6A: Configure a Local Printer
- Topic 6B: Print Files
- Topic 6C: Manage Print Jobs and Queues
- Topic 6D: Configure Remote Printing

Lesson 7: Managing Packages

- Topic 7A: Manage Packages Using RPM
- Topic 7B: Verify Packages
- Topic 7C: Upgrade Packages
- Topic 7D: Configure Repositories
- Topic 7E: Manage Packages Using YUM
- Topic 7F: Manage Packages Using the Debian Package Manager
- Topic 7G: Work with Source Files

Lesson 8: Managing Kernel Services

- Topic 8A: Explore the Linux Kernel
- Topic 8B: Customize Kernel Modules
- Topic 8C: Create an initrd Image
- Topic 8D: Manage Device Drivers
- Topic 8E: Monitor Hardware Devices
- Topic 8F: Monitor Processes and Resources

Lesson 9: Working with the Bash Shell and Shell Scripts

- Topic 9A: Perform Basic Bash Shell Operations
- Topic 9B: Introduction to Shell Scripting
- Topic 9C: Customize the Bash Shell
- Topic 9D: Redirect Standard Input and Output

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Topic 9E: Use Control Statements in Shell Scripts

Lesson 10: Managing Jobs and Processes

Topic 10A: Manage Jobs and Background Processes
Topic 10B: Manage Processes Using the Process Table
Topic 10C: Examine Delayed and Detached Jobs
Topic 10D: Schedule Jobs
Topic 10E: Maintain the System Time

Lesson 11: Managing System Services

Topic 11A: Configure System Services
Topic 11B: Monitor System Logs
Topic 11C: Configure SE Linux

Lesson 12: Configuring Network Services

Topic 12A: Connect to a Network
Topic 12B: Configure Routes
Topic 12C: Configure DHCP
Topic 12D: Configure DNS
Topic 12E: Implement Network File Sharing Services
Topic 12F: Configure NIS
Topic 12G: Manage Remote Network Systems

Lesson 13: Configuring Basic Internet Services

Topic 13A: Configure a Web Server
Topic 13B: Implement Apache Access Control
Topic 13C: Implement Access Control in a Proxy Server
Topic 13D: Configure Email Services
Topic 13E: Control Internet Services

Lesson 14: Securing Linux

Topic 14A: Examine the Basics of System Security
Topic 14B: Secure User Accounts
Topic 14C: Enable Firewall Functionality
Topic 14D: Implement Security Auditing
Topic 14E: Detect Intrusion

Lesson 15: Managing Hardware

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Topic 15A: Identify Common Hardware Components and Resources
Topic 15B: Configure Power Management
Topic 15C: Configure Removable Hardware
Topic 15D: Configure Mass Storage Devices
Topic 15E: Manage Logical Volumes Using the Logical Volume Manager
Topic 15F: Configure Disk Quotas

Lesson 16: Troubleshooting Linux Systems

Topic 16A: Troubleshoot System-Based Issues
Topic 16B: Troubleshoot Hardware Issues
Topic 16C: Troubleshoot Network Connection and Security Issues

Lesson 17: Installing Linux

Topic 17A: Prepare for Installation
Topic 17B: Identify Phases of the Linux Boot Sequence
Topic 17C: Configure GRUB
Topic 17D: Install the Operating System
Topic 17E: Perform Post-Installation Tasks

Lesson 18: Configuring the GUI

Topic 18A: Implement X
Topic 18B: Customize the Display Manager
Topic 18C: Customize the Window Environment

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