



Train. Employ. Empower.

Linux+

Price
\$1,495.00

Duration
**5 Daytime Classes
or
10 Evening Classes**

Delivery Methods
**Virtual, Private
Group,**

CAREER SKILLS+™

The Official CompTIA® Linux+® courseware builds on your existing experience with systems operations and administration to provide you with the knowledge and skills required to configure, manage, operate, and troubleshoot a Linux environment by using security best practices, scripting, and automation. This course will also prepare you for the Exam XK0-005.

Who Should Attend

This course is designed for IT professionals whose primary job responsibility is the management of servers and other devices running the Linux operating system. A typical student in this course should have at least nine months of hands-on Linux experience and at least one and a half years of IT experience in other computing environments. The target student should wish to expand their skill set to support their career in Linux system administration and operation. This course is also designed for students who are seeking the CompTIA Linux+ certification and who want to prepare for Exam XK0-005. The Linux+ certification can validate the student's understanding and skill in configuring, monitoring, and supporting Linux systems.

Course Prerequisites

There are no prerequisites for this course.

Course Objectives

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Configure, operate, and troubleshoot Linux systems.

Perform basic Linux tasks.

Manage users and groups.

Manage permissions and ownership.

Manage storage.

Manage files and directories.

Manage kernel modules.

Manage the Linux boot process.

Manage system components.

Manage devices.

Manage networking.

Manage packages and software.

Secure Linux systems.

Write and execute Bash shell scripts.

Automate tasks.

Plan and perform a Linux installation.

Agenda

1 - PERFORMING BASIC LINUX TASKS

Identify the History and Development of Linux

Enter Shell Commands

Get Help Using Linux

2 - MANAGING USERS AND GROUPS

Assume Superuser Privileges

Create, Modify, and Delete Users

Create, Modify, and Delete Groups

Query Users and Groups

Configure Account Profiles

3 - MANAGING PERMISSIONS AND OWNERSHIP

Modify File and Directory Permissions

Modify File and Directory Ownership

Configure Special Permissions and Attributes

Troubleshoot Permissions Issues

4 - MANAGING STORAGE

Create Partitions

Manage Logical Volumes

Mount File Systems

Manage File Systems

Navigate the Linux Directory Structure

Troubleshoot Storage Issues

5 - MANAGING FILES AND DIRECTORIES

Create and Edit Text Files

Search for Files

Perform Operations on Files and Directories

Process Text Files

Manipulate File Output

6 - MANAGING KERNEL MODULES

Explore the Linux Kernel

Install and Configure Kernel Modules

Monitor Kernel Modules

7 - MANAGING THE LINUX BOOT PROCESS

Configure Linux Boot Components

Configure GRUB 2

8 - MANAGING SYSTEM COMPONENTS

Configure Localization Options

Configure GUIs

Manage Services

Troubleshoot Process Issues

Troubleshoot CPU and Memory Issues

9 - MANAGING DEVICES

Identify the Types of Linux Devices

Configure Devices

Monitor Devices

Troubleshoot Hardware Issues

10 - MANAGING NETWORKING

Identify TCP/IP Fundamentals

Identify Linux Server Roles

Connect to a Network

Configure DHCP and DNS Client Services

Configure Cloud and Virtualization Technologies

Troubleshoot Networking Issues

11 - MANAGING PACKAGES AND SOFTWARE

Identify Package Managers

Manage RPM Packages with YUM

Manage Debian Packages with APT

Configure Repositories

Acquire Software

Build Software from Source Code

Troubleshoot Software Dependency Issues

12 - SECURING LINUX SYSTEMS

Implement Cybersecurity Best Practices

Implement Identity and Access Management Methods



Configure SELinux or AppArmor

Configure Firewalls

Implement Logging Services

Back Up, Restore, and Verify Data

13 - WORKING WITH BASH SCRIPTS

Customize the Bash Shell Environment

Identify Scripting and Programming Fundamentals

Write and Execute a Simple Bash Script

Incorporate Control Statements in Bash Scripts

14 - AUTOMATING TASKS

Schedule Jobs

Implement Version Control Using Git

Identify Orchestration Concepts

15 - INSTALLING LINUX

Prepare for Linux Installation

Perform the Installation

