

Course Name	CompTIA Linux+
Course Code	XK0-005
Course Duration	5 Days
Course Structure	Instructor-Led
Course Overview	<p>CompTIA is a not-for-profit trade association with the purpose of advancing the interests of IT professionals and IT channel organizations; its industry-leading IT certifications are an important part of that mission. CompTIA's Linux+ certification is an intermediate-level certification designed for professionals with at least 12 months of hands-on experience working with Linux servers in a junior Linux support engineer or junior cloud/DevOps support engineer job role. In addition, the knowledge gained in CompTIA's A+, Network+, and Server+ courses, or the equivalent, is strongly recommended.</p> <p>The CompTIA Linux+ certification exam will verify the successful candidate has the knowledge and skills required to configure, manage, operate, and troubleshoot Linux in on-premises and cloud-based server environments while using security best practices, scripting, containerization, and automation.</p>
Audience Profile	The Official CompTIA Linux+ (Exam XK0-005) is the primary course you will need to take if your job responsibilities include Linux system administration, installation, and security within your organization. You can take this course to prepare for the CompTIA Linux+ (Exam XK0-005) certification examination.
Course Prerequisites	To ensure your success in this course, you should have at least 12 months of hands-on experience working with Linux servers. CompTIA A+, Network+, and Server+ certifications, or the equivalent knowledge, are strongly recommended.
Course Outcome	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> • Configure, manage, and troubleshoot Linux systems. • Operate Linux in both on-premises and cloud-based server environments. • Implement security best practices. • Use scripting, containerization, and automation to optimize a Linux system.

Assessment/Evaluation	This course will prepare delegates to take the exam: XK0-005 CompTIA Linux+ Successfully passing this exam will result in the attainment of the CompTIA Linux+ Certification and Certificate of Attendance issued by IT-IQ Botswana
------------------------------	--

Course Details	
Topic	Lesson 1: Introducing Linux Topic 1A: Identify Linux Characteristics Topic 1B: Understand Bash Interaction with Linux Topic 1C: Use Help in Linux Topic 1D: Identify the Linux Troubleshooting Methodology Lesson 2: Administering Users and Groups Topic 2A: Manage User Accounts Topic 2B: Manage Group Accounts Topic 2C: Configure Privilege Escalation Topic 2D: Troubleshoot User and Group Issues

Lesson 3: Configuring Permissions

Topic 3A: Configure Standard Linux Permissions

Topic 3B: Configure Special Linux Permissions

Topic 3C: Configure Access Control Lists

Lesson 4: Implementing File Management

Topic 4A: Understand the Linux File System

Topic 4B: Use File Management Commands

Topic 4C: Find File Locations

Lesson 5: Authoring Text Files

Topic 5A: Edit Text Files

Topic 5B: Manage Text Files

Lesson 6: Managing Software

Topic 6A: Understand Software Management

Topic 6B: Manage RPM Software Packages and Repositories

Topic 6C: Manage Debian-based Software Packages and Repositories

Topic 6D: Compile from Source Code

Topic 6E: Acquire Software

Topic 6F: Run Software in a Sandbox

Lesson 7: Administering Storage

Topic 7A: Understand Storage

Topic 7B: Deploy Storage

Topic 7C: Manage Other Storage Options

Topic 7D: Troubleshoot Storage

Lesson 8: Managing Devices, Processes, Memory, and the Kernel

Topic 8A: Gather Hardware Information

Topic 8B: Manage Processes

Topic 8C: Manage Memory

Topic 8D: Manage the Linux Kernel

Lesson 9: Managing Services

Topic 9A: Manage System Services

Topic 9B: Configure Common System Services

Topic 9C: Configure Localization Settings

Lesson 10: Configuring Network Settings

Topic 10A: Understand Network Fundamentals

Topic 10B: Manage Network Settings

Topic 10C: Configure Remote Administrative Access

Topic 10D: Troubleshoot the Network

Lesson 11: Configuring Network Security

Topic 11A: Configure the Firewall

Topic 11B: Monitor Network Traffic

Lesson 12: Managing Linux Security

Topic 12A: Harden a Linux System

Topic 12B: Manage Certificates

Topic 12C: Understand Authentication

Topic 12D: Configure SELinux or AppArmor

Lesson 13: Implementing Simple Scripts

Topic 13A: Understand Bash Scripting Basics

Topic 13B: Use Shell Script Elements

Topic 13C: Implement Scripts with Logical Controls

Lesson 14: Using Infrastructure as Code

Topic 14A: Understand Infrastructure as Code

Topic 14B: Implement Orchestration

Topic 14C: Manage Version Control with Git

	<p>Lesson 15: Managing Containers in Linux</p> <p>Topic 15A: Understand Containers</p> <p>Topic 15B: Deploy Containers</p> <p>Topic 15C: Understand Virtualization Concepts</p> <p>Lesson 16: Installing Linux</p> <p>Topic 16A: The Linux Boot Process</p> <p>Topic 16B: Modify Boot Settings</p> <p>Topic 16C: Deploy Linux</p>
--	---