

Days: 5

Prerequisites: This course assumes that you have basic knowledge of using and maintaining individual workstations. Knowledge equivalent to the CompTIA A+ certification is helpful but not necessary.

Audience: You will benefit most from this course if you intend to take a CompTIA Linux+ XK0-005 exam.

Description: Welcome to CompTIA Linux+ XK0-005. This course provides the basic knowledge needed to install and manage modern Linux systems in a vendor-neutral format. It includes usage of fundamental operating system tools, networking and storage, applications and services, account management, access controls, scripting, automation tools, and troubleshooting. This course maps to the CompTIA Linux+ certification exam.

Course Objectives:

- 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.

OUTLINE:

LESSON 1: FUNDAMENTALS

Module A: Linux basics
Module B: File management

LESSON 2: SHELL OPERATIONS

Module A: Stream and text processing
Module B: Scripting

LESSON 3: LINUX SOFTWARE

Module A: Software installation
Module B: Process management
Module C: Service management

LESSON 4: SYSTEM CONFIGURATION

Module A: System settings
Module B: Network configuration

LESSON 5: FILE AND STORAGE MANAGEMENT

Module A: Storage management
Module B: Device management

LESSON 6: SYSTEM TROUBLESHOOTING

Module A: Performance troubleshooting
Module B: Network troubleshooting
Module C: Storage troubleshooting

LESSON 7: SECURE NETWORKING

Module A: Firewalls
Module B: Remote connectivity

LESSON 8: IDENTITY MANAGEMENT

Module A: Account management
Module B: Linux authentication

LESSON 9: ACCESS CONTROL

Module A: Linux access controls

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Module B: Securing Linux systems

LESSON 10: AUTOMATED DEPLOYMENT

Module A: Virtual and cloud environments

Module B: Automated development

Module C: Container operations