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CompTIA Linux+ (XK0-004)

Module 1: Intro & Performing Basic Linux Tasks

Instructor Introduction
Course Introduction
Identify The Linux Design Philosophy
Enter Shell Commands
Shell Commands Activity
Get Help with Linux

Module 2: Managing Users and Groups

Assume Superuser and Groups
Create, Modify, and Delete Users
Create, Modify, and Delete Groups
Query Users and Groups
Configure Account Profiles

Module 3: Managing Permissions and Ownership

Modify File and Directory Permissions
Modify File and Directory Ownership
Configure Special Permissions and Attributes
Troubleshoot Permissions Issues

Module 4: Managing Storage

Create Partitions
Manage Logical Volumes
Mount File Systems
Manage File Systems
Navigate the Linux Directory Structure
Troubleshoot Storage Issues

Module 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

Module 6: Managing Kernel Modules

Explore the Linux Kernel
Install and Configure Kernel Modules
Monitor Kernel Modules

Module 7: Managing the Linux Boot Process

Configure Linux Boot Components
Configure GRUB

Module 8: Managing System Components

Configure Localization Options
Configure GUIs
Manage Services
Troubleshoot Process Issues
Troubleshoot CPU and Memory Issues

Module 9: Managing Devices

Identify the Types of Linux
Configure Devices
Monitor Devices
Troubleshoot Hardware Issues

Module 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

Module 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

Module 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

Module 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

Module 14: Automating Tasks

Schedule Jobs
Implement Version Control Using Git
Identify Orchestration Concepts

Module 15: Installing Linux

Prepare for Linux Installation
Perform the Installation