



XK0-004

Table of Contents

Lesson 1: Performing Basic Linux Tasks

Topic A: Identify the Linux Design Philosophy

Topic B: Enter Shell Commands
Topic C: Get Help with Linux

Lesson 2: Managing Users and Groups

Topic A: Assume Superuser Privileges

Topic B: Create, Modify, and Delete Users

Topic C: Create, Modify, and Delete Groups

Topic D: Query Users and Groups

Topic E: Configure Account Profiles

Lesson 3: Managing Permissions and Ownership

Topic A: Modify File and Directory Permissions

Topic B: Modify File and Directory Ownership

Topic C: Configure Special Permissions and Attributes

Topic D: Troubleshoot Permissions Issues

Lesson 4: Managing Storage

Topic A: Create Partitions

Topic B: Manage Logical Volumes

Topic C: Mount File Systems

Topic D: Manage File Systems

Topic E: Navigate the Linux Directory Structure

Topic F: Troubleshoot Storage Issues





XK0-004

Lesson 5: Managing Files and Directories

Topic A: Create and Edit Text Files

Topic B: Search for Files

Topic C: Perform Operations on Files and Directories

Topic D: Process Text Files

Topic E: Manipulate File Output

Lesson 6: Managing Kernel Modules

Topic A: Explore the Linux Kernel

Topic B: Install and Configure Kernel Modules

Topic C: Monitor Kernel Modules

Lesson 7: Managing the Linux Boot Process

Topic A: Configure Linux Boot Components

Topic B: Configure GRUB 2

Lesson 8: Managing System Components

Topic A: Configure Localization Options

Topic B: Configure GUIs
Topic C: Manage Services

Topic D: Troubleshoot Process Issues

Topic E: Troubleshoot CPU and Memory Issues

Lesson 9: Managing Devices

Topic A: Identify the Types of Linux Devices

Topic B: Configure Devices
Topic C: Monitor Devices

Topic D: Troubleshoot Hardware Issues





XK0-004

Lesson 10: Managing Networking

Topic A: Identify TCP/IP Fundamentals
Topic B: Identify Linux Server Roles

Topic C: Connect to a Network

Topic D: Configure DHCP and DNS Client Services

Topic E: Configure Cloud and Virtualization Technologies

Topic F: Troubleshoot Networking Issues

Lesson 11: Managing Packages and Software

Topic A: Identify Package Managers

Topic B: Manage RPM Packages with YUM Topic C: Manage Debian Packages with APT

Topic D: Configure Repositories

Topic E: Acquire Software

Topic F: Build Software from Source Code

Topic G: Troubleshoot Software Dependency Issues

Lesson 12: Securing Linux Systems

Topic A: Implement Cybersecurity Best Practices

Topic B: Implement Identity and Access Management Methods

Topic C: Configure SELinux or AppArmor

Topic D: Configure Firewalls

Topic E: Implement Logging Services

Topic F: Back Up, Restore, and Verify Data

Lesson 13: Working with Bash Scripts

Topic A: Customize the Bash Shell Environment

Topic B: Identify Scripting and Programming Fundamentals

Topic C: Write and Execute a Simple Bash Script

Topic D: Incorporate Control Statements in Bash Scripts





XK0-004

Lesson 14: Automating Tasks

Topic A: Schedule Jobs

Topic B: Implement Version Control Using Git

Topic C: Identify Orchestration Concepts

Lesson 15: Installing Linux

Topic A: Prepare for Linux Installation

Topic B: Perform the Installation