

Red Hat System Administration I

Course Duration: 40 Hours

Course Code: RH124

1. Course Overview

The **Red Hat System Administration I (RH124)** course is designed for IT professionals who are new to Linux and want to build the foundational skills required to become a **Red Hat Enterprise Linux (RHEL) system administrator**. This hands-on training introduces essential Linux command-line concepts, system management tasks, and core administrative skills that prepare learners for advanced Red Hat training and certification.

It is the first course in the **Red Hat Certified System Administrator (RHCSA)** training track.

2. What You'll Learn?

By completing this course, participants will gain skills to:

- Access, navigate, and work with the **Linux command line**.
- Manage **users, groups, and permissions**.
- Control **system services, processes, and tasks**.
- Configure and secure **local storage**.
- Manage **files, directories, and file systems**.
- Work with **software installation and updates** using RHEL tools.
- Establish **network connectivity and security basics**.
- Perform **basic system troubleshooting**.

3. Target Audience

This course is ideal for:

- **IT professionals** with little or no Linux experience.
- **Windows system administrators** transitioning to Linux.
- **Aspirants preparing for Red Hat Certified System Administrator (RHCSA) certification.**
- **Junior Linux administrators, support staff, and IT professionals** working with RHEL.

4. Pre-Requisites

- Basic computer knowledge and familiarity with operating systems.
- No prior Linux command-line or system administration experience is required.

5. Course Content

Module 1: Introduction to Red Hat Enterprise Linux

- Overview of RHEL environment.
- Accessing the command line with console and remote methods.
- Executing essential commands.

Module 2: Managing Files and Directories

- Navigating the Linux filesystem.
- Using common command-line utilities.
- Creating, editing, and viewing files.

Module 3: User and Group Management

- Understanding users and groups.

- Creating, modifying, and managing accounts.
- Configuring permissions and ownership.

Module 4: Managing System Services and Processes

- Working with system for service management.
- Controlling processes and scheduling tasks.
- Managing system performance basics.

Module 5: Configuring and Securing Storage

- Creating and managing partitions.
- Working with file systems (ext4, XFS).
- Mounting and unmounting storage.

Module 6: Software Management

- Using YUM and DNF package managers.
- Installing, updating, and removing software.
- Working with Red Hat subscription management.

Module 7: Networking Fundamentals

- Configuring network interfaces.
- Basic network troubleshooting.
- Understanding firewall basics.

Module 8: System Logging and Monitoring

- Viewing and managing system logs.
- Using journals and log files.
- Basic system monitoring.

Module 9: Essential System Troubleshooting

- Diagnosing common issues.
- Recovering from boot and configuration errors.

- Using rescue and recovery tools.

Module 10: Preparing for RHCSA

- Review of essential skills.
- Practice exercises for certification readiness.

