Information Technology

System Administration II

Course Introduction

This training course is designed as the second part of the Red Hat Certified System Administrator (RHCSA) training track for IT professionals who have taken Red Hat System Administration I (RH124). The course goes deeper into core Linux system administration skills, including storage configuration, security feature management, task control, and installation and deployment of Red Hat Enterprise Linux. This course is based on Red Hat Enterprise Linux 8.

Target Audience

- Cloud Computing Engineer
- Computer Network Specialist
- Computer Support Specialist
- Database Administrator
- Information Technology Analyst
- Information Technology Leadership
- Information Security Specialist
- Software/Application Developer
- Web Developer
- Technology sales consultant

Learning Objectives

- Install Red Hat Enterprise Linux using Kickstart
- Manage file systems and logical volumes
- Manage scheduled jobs
- Access network file systems
- Manage SELinux

- Control firewalls
- Perform troubleshooting tasks

Course Outline

- **Day 01**

  Improve command line productivity

  - Run commands more efficiently by using advanced features of the bash shell, shell scripts, and various utilities provided by Red Hat Enterprise Linux.
  - Schedule future tasks
  - Schedule commands to run in the future, either one time or on a repeating schedule.
  - Tune system performance
- **Day 02**

  Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.

  - Control access to files with ACLs
  - Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions.
  - Manage SELinux security
  - Protect and manage the security of a server by using SELinux.
- **Day 03**

  Maintain basic storage

  - Create and manage storage devices, partitions, file systems, and swap spaces from the command line.
  - Manage logical volumes
  - Create and manage logical volumes containing file systems and swap spaces from the command line.
  - Implement advanced storage features
- **Day 04**

Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.

- ◦ Access network-attached storage
- ◦ Use the NFS protocol to administer network-attached storage.
- ◦ Control the boot process
- ◦ Manage the boot process to control services offered and to troubleshoot and repair problems.
- **Day 05**

Manage network security.

- ◦ Control network connections to services using the system firewall and SELinux rules.
- ◦ Install Red Hat Enterprise Linux.
- ◦ Install Red Hat Enterprise Linux on servers and virtual machines.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 30, 2025	July 4, 2025	5 days	4250.00 $	UAE - Abu Dhabi
Aug. 25, 2025	Aug. 29, 2025	5 days	4950.00 $	Spain - Barcelona
Dec. 29, 2025	Jan. 2, 2026	5 days	4250.00 $	UAE - Dubai