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## Red Hat RHCSA Rapid Track Course (RH199)

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### Overview

This course combines the foundations and applications established and covered in Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134). The rapid pace of review and consolidated course timeline allow you to focus on practical application, making this offering best suited for you if you already have significant experience with Linux® administration. This course is based on Red Hat® Enterprise Linux 8.

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### Prerequisite Comments

You will be expected to already understand fundamental Linux computing concepts and be ready to practice the Red Hat Enterprise Linux methods for performing system administration tasks. Significant field experience working with Linux as a system administrator is recommended. If you do not have experience with fundamental Linux computer concepts, we advise you to start with the Red Hat System Administration I (RH124) course instead.

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### Target Audience

This course is geared toward Windows system administrators, network administrators, and other system administrators who are interested in supplementing current skills or backstopping other team members, in addition to Linux system administrators who are responsible for these tasks:

- Configuring, installing, upgrading, and maintaining Linux systems using established standards and procedures
- Providing operational support
- Managing systems for monitoring system performance and availability
- Writing and deploying scripts for task automation and system administration

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### Course Objectives

You should be able to demonstrate these skills:

- Access the command line locally and remotely
- Manage files from the command line
- Manage local users and groups
- Monitor and manage Linux processes
- Control services, daemons, and the boot process
- Manage tuning profiles for system performance
- Control access to files with file system permissions
- Analyze and store log files
- Configure and secure the OpenSSH service
- Install and update software packages and appstreams
- Manage Linux file systems and volumes
- Manage Linux networking and firewalls

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### Course Outline

## 1 - Access systems and get help

Log in to local and remote Linux systems, and investigate problem resolution methods provided through Red Hat Insights and support.

## 2 - Navigate file systems

Copy, move, create, delete, and organize files while working from the bash shell.

## 3 - Manage local users and groups

Create, manage, and delete local users and groups and administer local password policies.

## 4 - Control access to files

Set Linux file system permissions on files and to interpret the security effects of different permission settings.

## 5 - Managing SELinux security

Protect and manage the security of a server by using SELinux.

## 6 - Tune system performance

Evaluate and control processes, set tuning parameters, and adjust process scheduling priorities on a Red Hat Enterprise Linux system.

## 7 - Install and update software packages

Download, install, update, and manage software packages from Red Hat and yum package repositories.

## 8 - Manage basic storage

Create and manage storage devices, partitions, file systems, and swap spaces from the command line.

## 9 - Control services and the boot process

Control and monitor network services, system daemons, and the boot process using systemd.

## 10 - Manage networking

Configure network interfaces and settings on Red Hat Enterprise Linux servers.

## 11 - Analyze and store logs

Locate and accurately interpret logs of system events for troubleshooting purposes.

## 12 - Implement advanced storage features

Create and manage logical volumes containing file systems and swap spaces from the command line, and configure advanced storage features with Stratis and VDO.

## 13 - Schedule future tasks

Schedule tasks to automatically execute in the future.

## 14 - Access network-attached storage

Access network-attached storage, using the NFS protocol.

## 15 - Manage network security

Control network connections to services using the system firewall and SELinux rules.

## Related Courses, Certifications, Exams

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- Red Hat System Administration I (RH124)
- Red Hat Linux Automation with Ansible