



RHCSA Rapid Track course with RHCSA exam (RH200) HK835S

HPE course number	HK835S
Course length	5 days
Delivery mode	ILT
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The RHCSA Rapid Track course (RH200) is designed for students who already have significant experience with Linux administration. The course reviews the tasks covered in Red Hat® System Administration I (HK831S) and II (HK832S) at an accelerated pace.

On completion of course materials, students should be prepared to take the Red Hat Certified System Administrator (RHCSA) exam. This version of the course includes the exam.

Why HPE Education Services?

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Audience

- Students for this class should have 1-3 years of full time Linux administration experience

Prerequisites

Students attending this course should have basic experience with the following, with minimal dependence on documentation:

- Linux (some of the course may be review)
- The bash shell, including job control (&, fg, bg, jobs), shell expansion (command, tilde, globbing, brace, protection from expansion), I/O redirection, and pipes
- IPv4 networking addressing and routing concepts, TCP/UDP, and ports
- Navigation of the GNOME 3 interface
- Editing text files from the command line with vim or other available programs
- Finding information in man pages and info nodes
- The concept of file permissions
- Interactive installation of Red Hat Enterprise Linux

- Per-user 'at' and 'cron' jobs
- Use of archival utilities such as 'tar', 'zip', and compression utilities
- Absolute and relative paths
 - Finding files with 'find' and 'locate'

Course objectives

- Managing users and groups, files, and file permissions
- Updating software packages with yum
- Managing and troubleshooting systemd services during the boot process
- Network configuration and basic troubleshooting
- Managing local storage and creating and using file systems
- Firewall management with firewalld
- Managing kernel-based virtual machines (KVMs)
- Automating installation of Red Hat Enterprise Linux using Kickstart

Detailed course outline

Module 1: Accessing the command line	<ul style="list-style-type: none">• Log in to a Linux system and run simple commands using the shell
Module 2: Managing files from the command line	<ul style="list-style-type: none">• Work with files from the bash shell prompt
Module 3: Managing local Linux users and groups	<ul style="list-style-type: none">• Manage Linux users and groups and administer local password policies
Module 4: Controlling access to files with Linux file system permissions	<ul style="list-style-type: none">• Set access permissions on files and interpret the security effects of different permission settings
Module 5: Managing SELinux security	<ul style="list-style-type: none">• Use SELinux to manage access to files and interpret and troubleshoot SELinux security effects
Module 6: Monitoring and managing Linux processes	<ul style="list-style-type: none">• Monitor and control processes running on the system
Module 7: Installing and updating software packages	<ul style="list-style-type: none">• Download, install, update, and manage software packages from Red Hat and yum package repositories
Module 8: Controlling services and daemons	<ul style="list-style-type: none">• Control and monitor network services and system daemons using systemd
Module 9: Managing Red Hat Enterprise Linux networking	<ul style="list-style-type: none">• Configure basic IPv4 networking on Red Hat Enterprise Linux systems
Module 10: Analyzing and storing logs	<ul style="list-style-type: none">• Locate and interpret relevant system log files for troubleshooting purposes
Module 11: Managing storage and file systems	<ul style="list-style-type: none">• Create and use disk partitions, logical volumes, file systems, and swap spaces
Module 12: Scheduling system tasks	<ul style="list-style-type: none">• Schedule recurring system tasks using cron and systemd timer units
Module 13: Mounting network file systems	<ul style="list-style-type: none">• Mount network file system (NFS) exports and server message block (SMB) shares from network file servers
Module 14: Limiting network communication with firewalld	<ul style="list-style-type: none">• Configure a basic local firewall
Module 15: Virtualization and kickstart	<ul style="list-style-type: none">• Manage KVMs and install them with Red Hat Enterprise Linux using Kickstart

Next steps

- HK838S—Red Hat Linux System Administration III with RHCSA and RHCE Exams (RH255)

- HK827S—Red Hat Enterprise Virtualization (RH318)
- HK830S—Red Hat Enterprise Virtualization (RHCVA) Exam (EX318)

- HK822S—Red Hat Linux Troubleshooting Techniques and Tools (RH142)

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