

## RED HAT SYSTEM ADMINISTRATION I (5 Days)

Red Hat System Administration I (RH124) relates to Red Hat Enterprise Linux 7 and is designed for IT professionals without previous Linux administration experience. The course focuses on providing students with Linux administration "survival skills" by focusing on core administration tasks. System Admin I also provides a foundation for students wishing to become full time Linux system administrators by introducing key command line concepts and other enterprise level tools. These concepts are further developed in the follow-on course, Red Hat System Administration II (RH134). Both courses are needed in your preparation for the Red Hat Certified System Administrator Exam (EX200).

- Note for RH124, RH124VT, RH124RC versions of this course: This course teaches to Red Hat Enterprise Linux 7. If you are looking for Red Hat Enterprise Linux 6 content and labs, see our self-paced, online learning option.

### ***Skills Gained***

- Introduction to the command line
- Managing physical storage
- Learning how to install and configure software components and services
- Establishing network connections and firewall access
- Monitoring and managing processes
- Managing and securing files
- Administrating users and groups
- Accessing Linux file systems
- Installing and using virtualized systems
- Reviewing the system log files and journal

### ***Who Can Benefit***

IT professionals across a broad range of disciplines who need to perform essential Linux administration tasks including installation, establishing network connectivity, managing physical storage, and basic security administration.

### ***Prerequisites***

There are no formal prerequisites for this course; however, previous operating system administration experience will be very beneficial.

## **Course Details**

### ***Access the command line***

Log in to a Linux system and run simple commands using the shell.

### ***Manage files from the command line***

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

### ***Getting help in Red Hat Enterprise Linux***

Resolve problems by using online help systems and Red Hat support utilities.

### ***Create, view, and edit text files***

Create, view, and edit text files from command output or in an editor.

### ***Manage local Linux users and groups***

Manage local Linux users and groups, and administer local password policies.

### ***Control access to files with Linux file system permissions***

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

### ***Monitor and manage Linux processes***

Obtain information about the system, and control processes running on it.

### ***Control services and daemons***

Control and monitor network services and system daemons using systemd.

### ***Configure and secure OpenSSH service***

Access and provide access to the command line on remote systems securely using OpenSSH.

### ***Analyze and store logs***

Locate and accurately interpret relevant system log files for troubleshooting purposes.

### ***Manage Red Hat Enterprise Linux networking***

Configure basic IPv4 networking on Red Hat Enterprise Linux systems.

### ***Archive and copy files between systems***

Archive files and copy them from one system to another.

***Install and update software packages***

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

***Access Linux file systems***

Access and inspect existing file systems on a Red Hat Enterprise Linux system.

***Use virtualized systems***

Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt.

***Comprehensive review***

Practice and demonstrate the knowledge and skills learned in this course.