

## [RH124]: Red Hat Enterprise Linux System Administration I

Length : 5 Days  
Audience(s) : IT Professionals  
Delivery Method : Instructor-led (Classroom)

### Course Overview

Red Hat System Administration I provides a foundation for participants 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).

### Audience Profile

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.

### At Course Completion

- 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

### Pre-Requisites

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

#### AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 609607  
Main Line: +65 6661 0888 | Fax: +65 6661 0886  
Email: [enquiries@AvantusTraining.com](mailto:enquiries@AvantusTraining.com)  
[www.AvantusTraining.com](http://www.AvantusTraining.com)

## Course Outline

### Module 1: Access the command line

#### Lessons

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

### Module 2: Manage files from the command line

#### Lessons

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

### Module 3: Get help in Red Hat Enterprise Linux

#### Lessons

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

### Module 4: Create, view, and edit text files

#### Lessons

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

### Module 5: Manage local Linux users and groups

#### Lessons

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

### Module 6: Control access to files with Linux file system permissions

#### Lessons

- Set Linux file system permissions on files and interpret the security effects

### Module 7: Monitor and manage Linux processes

#### Lessons

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

### Module 8: Control services and daemons

#### Lessons

- Control and monitor network services and system daemons using systemd

### Module 9: Configure and secure OpenSSH service

#### Lessons

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

### Module 10: Analyze and store logs

#### Lessons

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

### Module 11: Manage Red Hat Enterprise Linux networking

#### Lessons

- Configure basic IPv4 networking on Red Hat Enterprise Linux systems

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## **Module 12: Archive and copy files between systems**

### **Lessons**

- Archive files and copy them from one system to another

## **Module 13: Install and update software packages**

### **Lessons**

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

## **Module 14: Access Linux file systems**

### **Lessons**

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

## **Module 15: Use virtualized systems**

### **Lessons**

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

## **Module 16: Comprehensive review**

### **Lessons**

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

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