

# Red Hat System Administration I («RH124»)

This course 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.

**Duration:** 5 days

**Price:** 3'150.–

**Vendor code:** RH124

## Content

This course 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 \(RH134\)](#).

- **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
- **Get 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

## Key Learnings

- 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

## Target audience

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.

## Requirements

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

- [Getting Started with Linux Fundamentals \(«RH104»\)](#)

## Additional information

A Red Hat course in english can be organised under certain conditions, do not hesitate to contact us if you are interested.

## Further courses

- [Red Hat System Administration II \(«RH134»\)](#)
- [Red Hat System Administration II with RHCSA \(«RH135»\)](#)

## Any questions?

We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-digital-transformation-technologies/cloud/underlying-technologies/course-red-hat-system-administration-i-rh124](http://www.digicomp.ch/courses-digital-transformation-technologies/cloud/underlying-technologies/course-red-hat-system-administration-i-rh124)