

# **TRENDSETTERS CAREER ACADEMY**

Syllabus  
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## **Red Hat Enterprise Linux 7-RHCE Syllabus**

### **RH124 Red Hat System Administration I**

Red Hat System Administration 1(RH124) is Designed for IT Professionals who are new to Linux. This course will actively engage students in task focused activities,lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention. In addition GUI-based Environment will be featured to build on the student's existing technical knowledge, while command line concepts will be introduced to provide a foundation for students planning to become full time Linux system administrator.

### **Audience**

- IT Professionals across a board range of disciplines who need to perform essential Linux administration tasks,including installation, establishing network connectivity, managing physical storage and basic system administration

### **Prerequisites**

- There are no formal prerequisites for this course,however,previous system administration experience o other operating system will be

**very beneficial.**

## **Course Outline**

### **Unit 1: Accessing the Command Line**

#### **Objectives:**

- **Recognize the BASH shell based on the default prompt.**
- **Use Linux efficiently by switching between virtual consoles.**
- **Display usage messages and be able to interpret a command's syntax.**

### **Unit 2: Managing Files From The Command Line**

#### **Objectives:**

- **Recognize and Find Familiarity in a File-system Tree,**
- **Learn Terms Like “root” Directory and Subdirectory.**
- **Introduction to Different types of Data in Separate System Directories.**

### **Unit 3: Getting Help in Red Hat Enterprise Linux**

#### **Objectives:**

- **Learn “man” Terminology, Including Topics and Sections.**
- **Become Aware of The importance of less-noticed man sections.**

### **Unit 4: Creating, Viewing and Editing Text Files**

#### **Objectives:**

- **Describe the Technical Terms Standard Output, and Standard Error.**
- **Use Redirection Characters to Control Output to Files.**
- **Use Pipe to Control Output to Other Programs.**

## **Unit 5: Manage Local Linux Users And Groups**

### **Objectives:**

- **Explain the Role of Users and Groups on a Linux System and How They are Understood by The Computer.**

## **Unit 6: Controlling Access to Files With Linux File-system Permissions**

### **Objectives:**

- **Explain How the Linux File Permissions Model Works.**

## **Unit 7: Monitoring And Managing Linux Processes**

### **Objectives:**

- **Learn the Processes Lifecycle, in Order to better Comprehend Process States.**

## **Unit 8: Controlling Services and Daemons**

### **Objectives:**

- **List System Daemons and Network Services Started by Systemd services and Socket units.**

## **Unit 9: Configuring And Securing Open-ssh Service**

### **Objectives:**

- **Log into a Remote System Using ssh to Run Commands From a Shell Prompt.**

## **Unit 10: Analyzing And Storing Logs**

### **Objectives:**

- **Describe the Basic “syslog” Architecture in RHEL7**

## **Unit 11: Managing RHEL Networking**

### **Objectives:**

- **Explain Fundamental Concepts of Computer Networking.**

## **Unit 12: Archiving and Copying Files between Systems**

### **Objectives:**

- **To Create Backups and Transfer Files Over The Network.**

## **Unit 13: Installing and Updating Software Packages**

### **Objectives:**

- **Register System With Your Red Hat Account and Entitle Them to Software Updates for Installed Products.**

## **Unit 14: Accessing Linux File-systems**

### **Objectives:**

- **Determine which Directories in the File-system Hierarchy are Stored on Which Storage Devices.**

## **Unit 15: Using Virtualized Systems**

### **Objectives:**

- **Recognize the Consistent Use of KVM Architecture Throughout of Red Hat Product Line.**

## **Unit 16: Accessing the Command Line**

### **Objectives:**

- **Comprehensive Review.**