

# **TRENDSETTERS CAREER ACADEMY**

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

### **RH134 Red Hat System Administration II**

Red Hat System Administration II (RH134) is designed for IT Professionals working to full time Linux Administrators, the course is a followup to rh124(SA1). This course will actively engage students in task focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention. Students who attend System Administration I and System Administration II will be fully prepared to take the Red Hat Certified System Administration(RHCSA)Exam.

### **Audience**

- This course is singularly designed for students who have completed Red Hat System Administration I (RH124). The Organization of topics is such that it is not appropriate for student to use RH134 as a curriculum entry point.

### **Prerequisites**

- Having sat the Red Hat Enterprise System Administration I (RH124) course, or equivalent knowledge.

## Course Outline

### **Unit 1: Automating Installation with Kickstart**

#### **Objectives:**

- **Explain Kickstart Concepts and Architecture**
- **Install and configure Linux using Kickstart**

### **Unit 2: Using Regular Expressions with “grep”**

#### **Objectives:**

- **Create a Regular Expressions that match desired data.**

### **Unit 3: Creating and Editing Text files with vim**

#### **Objectives:**

- **Explain the three main modes of “vim”.**

### **Unit 4: Scheduling Future Linux Tasks**

#### **Objectives:**

- **Scheduling tasks using at and cron.**

### **Unit 5: Managing Priority of Linux Processes**

#### **Objectives:**

- **Explain about Linux Processes and nice values.**

## **Unit 6: Controlling Access to Files with Access Control Lists (ACL)**

### **Objectives:**

- **Describe ACL's and file system mount options.**

## **Unit 7: Managing SELinux Security**

### **Objectives:**

- **Explain the Basics of Se-Linux permissions and Context Transitions.**
- **Display Current Se-Linux Modes.**
- **Correctly Interpret the Se-Linux Context of a File.**
- **Identify Current Se-Linux Boolean Settings.**

## **Unit 8: Connecting to Network-Defined Users and Groups**

### **Objectives:**

- **User authentication using centralized Identity Management Services.**

## **Unit 9: Adding Disks, Partitions, and File Systems to a Linux System**

### **Objectives:**

- **Create and Delete disk Partitions on disks with an MBR Partitioning Scheme Using “fdisk”.**
- **Create and Delete disk Partitions on disks with an GPT Partitioning Scheme Using “gdisk”.**
- **Format Devices Using “mkfs”**
- **Mount File System into the Directory Tree**

## **Unit 10: Managing Logical Volume Management (LVM) Storage**

### **Objectives:**

- **How to manage high performance LVM storage.**

## **Unit 11: Accessing Network Attached Storage with Network File System (NFS)**

### **Objectives:**

- **Access , Mount and Unmount NFS Shares .**

## **Unit 12: Accessing Network Storage with SMB**

### **Objectives:**

- **how to mount and unmount smb file-system using the command line.**

## **Unit 13: Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process**

### **Objectives:**

- **Describe and Influence the RHEL Boot Process.**

## **Unit 14: Limiting Network Communication with Firewall**

### **Objectives:**

- **Configure the Basic Firewall Using “firewalld”, “firewalld-config”and “firewalld-cmd”.**

## **Unit 15: Comprehensive Review**

### **Objectives:**

- **Comprehensive Review of System Administration 2**

