

# **RH033 Red Hat Linux Essentials**

**For Windows Professionals and Other Operating System Users**

## **Course Summary**

An introduction to fundamental end-user and administrative tools in Red Hat Enterprise Linux, designed for students with little or no command-line Linux or UNIX experience.

### **Goal:**

A power user or junior administrator who can effectively install, use and perform basic configuration of a Red Hat Enterprise Linux system.

### **Audience:**

IT professionals who want to build user-level skills before learning Linux System and Network Administration.

### **Prerequisites:**

User-level experience with any computer system, including: use of mouse, use of menus and use of any graphical user interface.

### **Duration:**

5 days

## **RH033 Course Content**

The following is an outline of the skills and knowledge represented in the training elements of the RH033 Red Hat Linux Essentials course.

### **A Tour of Red Hat Enterprise Linux**

#### **Unit 1 - Linux Ideas and History**

- An Introduction to Linux and Open Source: what are the central ideas behind the Linux phenomenon and where do they come from?

#### **Unit 2 - Linux Usage Basics**

- Logging into the system, changing users and editing text files.

### **Unit 3 - Running Commands and Getting Help**

- How to use built-in and online documentation to enhance your experience.

### **Unit 4 - Browsing the Filesystem**

- Understanding the locations of important directories on a Red Hat Enterprise Linux system and navigating them from the command line and using the graphical Nautilus browser.

### **Unit 5 - Users, Groups and Permissions**

- Reading and setting permissions on files and directories.

### **Unit 6 - Using the bash Shell**

- Basic tips and tricks to make Red Hat Enterprise Linux's default shell work for you. Topics include tab completion, history and an introduction to shell scripting.

### **Unit 7 - Standard I/O and Pipes**

- The ins-and-outs of redirecting output between programs and files.

### **Unit 8 - Text Processing Tools**

- An introduction to some of the most useful text-processing utilities in Red Hat Enterprise Linux, including grep, cut, sed, sort, diff and patch.

### **Unit 9 - vim: An Advanced Text Editor**

- How to get the most out of the powerful and flexible vim text editor.

### **Unit 10 - Basic System Configuration Tools**

- Using Red Hat Enterprise Linux's graphical and text-based configuration tools to manage networking, printing and date/time settings.

### **Unit 11 - Investigating and Managing Processes**

- Listing, terminating and scheduling program executions on a Red Hat Enterprise Linux system.

## **Unit 12 - Configuring the Bash Shell**

- A discussion of using shell variables and scripts to customize the command-line environment.

## **Unit 13 - Finding and Processing Files**

- In-depth coverage of using the find command and related utilities to locate and act upon files based on arbitrary criteria .

## **Unit 14 - Network Clients**

- An overview of network tools available in Red Hat Enterprise linux, from web browsers to email clients and diagnostic utilities.

## **Unit 15 - Advanced Topics in Users, Groups and Permissions**

- A deeper discussion of how user and group identities are stored on a Red Hat Enterprise Linux system, as well as the introduction of advanced filesystem permissions like SetUID and SetGID.

## **Unit 16 - The Linux Filesystem In-Depth**

- The nuts-and-bolts of how Red Hat Enterprise Linux deals with filesystems. Topics include partitions, inodes, linking and archiving tools.

## **Unit 17 - Essential System Administration Tools**

- An introduction to fundamental system administration topics such as installing Red Hat Enterprise Linux, managing software packages, and enhancing security with SELinux and the netfilter firewall.

## **Unit 18 - So... What Now?**

- Exposure to further options for training and involvement in the larger open-source community.