

## **033-Red Hat Linux Essentials**

**Please Note:** Technical content subject to change without notice. Significant changes in course content will generally be available in posted outlines at least two months prior to being implemented in scheduled courses, to allow enrolled students adequate prep time. Reload this page regularly to insure up-to-date information.

### **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.