



## Linux Learning Centre

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### Training & Certification

#### Programmes at LLC

LLC102: Essentials of Linux OS  
LLC103: Linux System & Network Administration  
LLC203: Linux Advanced Administration  
LLC303: Linux System & Network Monitoring Tools  
LLC104: Linux Internals & Programming Essentials  
LLC105: Programming with Qt  
LLC106: Device Driver Programming on Linux  
LLC107: Network Programming on Linux  
LLC108: Bash Shell Scripting Essentials  
LLC109: CVS on Linux  
LLC204: MySQL on Linux  
LLC205: Programming with PHP  
LLC206: Programming with Perl  
LLC207: Programming with Python  
LLC208: PostgreSQL on Linux  
LLC209: Joomla CMS  
LLC210: Drupal CMS  
LLC403: Qmail Server Administration  
LLC404: Postfix Mail Server Administration  
LLC405: Linux Firewall Solutions  
LLC406: Open LDAP Server Administration  
LLC408: Samba Server Administration  
LLC409: DNS Administration  
LLC410: Nagios - System & Network Monitoring Software  
LLC412: Apache & Secure Web Server Administration  
LLC414: Web Proxy Solutions  
LLC501: Programming with OpenGL  
LLC504: Linux on Embedded Systems  
LLC602: Linux Apache MySQL & PHP (LAMP)  
RH033: Red Hat Linux Essentials  
RH133: Red Hat Linux System Administration  
RH253: Red Hat Linux Network & Security Administration  
RH301: Red Hat Rapid Track Certification Course  
RHS333: Red Hat Enterprise Security : Network Services  
RH423: Red Hat Enterprise Directory Services & Authentication  
RHS429: Red Hat Enterprise SELinux Policy Administration  
RH318: Red Hat Enterprise Virtualization  
RH401: Red Hat Enterprise Deployment & Systems Management  
RH436: Red Hat Enterprise Clustering & Storage Management  
RH442: Red Hat Enterprise System Monitoring & Performance Tuning  
RH142: Linux Troubleshooting Techniques & Tools  
RH184: Red Hat Enterprise Linux Virtualization  
SUSE3071: SUSE Linux Enterprise Server Fundamentals  
SUSE3072: SUSE Linux Enterprise Server Administration  
SUSE3073: SUSE Linux Enterprise Server Advanced Administration

## Red Hat Linux Essentials

### Course Overview

For persons who have no command-line experience in Linux or UNIX and want to develop skills for using and customizing their own Red Hat Linux workstation.

### Pre-Requisites

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

### Target Audience

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

### Course Material

The official courseware from Red Hat will be provided during the training.

### Post Training Support

Candidates can clarify any doubts on the topics covered in the course over email for a period of 30 days after the conclusion of the course.

### Duration

Four Days: 10 am - 5.30 pm

### Course Fee

Rs. 6,000/- (plus 10.3% service tax)

### Mode of Payment

The course fee has to be paid completely in advance by cash / Credit-Debit Card / Cheque / Demand Draft payable in Bangalore City in favour of "Linux Learning Centre Private Limited". The registration can be forwarded along with the payment by hand or by courier.

### Course Outline

- **Linux Ideas and History**
  - Explain the nature of open source software
  - Discuss the origins of Linux
  - List the Red Hat operating system distributions
  - Explain basic Linux principles
- **Linux Usage Basics**
  - Log into a Red Hat Enterprise Linux System
  - Start X from a console
  - Access the command line from X
  - Change your password
  - Understand the nature of root privileges
  - Elevate your privileges
  - Edit plain text files
- **Running Commands and Getting Help**
  - Execute commands at the prompt
  - Explain the purpose and usage of some simple commands
  - Use the built-in help resources in Red Hat Enterprise Linux
- **Browsing the Filesystem**
  - Describe important elements of the filesystem hierarchy
  - Copy, move and remove files
  - Create and view files
  - Manage files with Nautilus
- **Users, Groups and Permissions**
  - Explain the Linux security model
  - Explain the purpose of user and group accounts
  - Read and set file permissions
- **Using the bash Shell**
  - Use command-line shortcuts
  - Use command-line expansion
  - Use history and editing tricks
  - Use the **gnome-terminal**
  - Write simple shell scripts
  - Set and reference shell variables
- **Standard I/O and Pipes**
  - Redirect I/O channels to files
  - Connect commands using pipes
  - Use the **for** loops to iterate over sets of values
- **Text Processing Tools**
  - Use tools for extracting, analyzing and manipulating text data
- **vim: An Advanced Text Editor**
  - Use the three primary modes of **vi** and **vim**
  - Navigate text and enter Insert mode
  - Change, delete, yank and put text
  - Undo changes
  - Search a document
  - Save and exit
- **Investigating and Managing Processes**
  - Explain what a process is
  - Describe how to manage processes
  - Use job control tools
  - Schedule recurring jobs
  - Employ decision making constructs in shell scripts
- **Basic System Configuration Tools**
  - Configure the network
  - Configure and send text to a printer
  - Set the system's date and time
  - Schedule time-delayed tasks
  - Schedule recurring tasks
  - Know how to handle input with the read command and positional parameters
- **Finding and Processing Files**
  - Use **locate**
  - Use **find**
  - Use the **Gnome Search tool**
- **Network Clients**
  - Browse the web
  - Exchange email and instant messages
  - Access a Linux system remotely
  - Transfer files between systems
  - Use network diagnostic tools
- **Advanced Topics in Users, Groups and Permissions**
  - Describe where Linux stores user, group and password information
  - Set default permissions
  - Use special permissions
- **Investigating and Managing Processes**
  - Process States, Viewing Processes and Nice Values
  - Sending Signals to Processes, Terminating
  - Foreground and Background Process
  - **at**, **crontab** Listing and Scheduling Jobs
- **The Linux Filesystem In-Depth**
  - Describe how filesystem information is organized
  - Describe the function of dentries and inodes
  - Describe how **cp**, **mv** and **rm** work at the inode level
  - Create Symbolic links and hard links
  - Access removable media
  - Create archives using **tar** and **gzip**