

## Red Hat Linux Programming Essentials

### Introduction

RHD143 Red Hat Linux Programming Essentials is an intensive hands-on course designed to rapidly train key skills for developing applications and programs on Red Hat Linux. This 5-day course provides hands-on training, concepts, demonstrations, with emphasis on realistic labs and programming exercises. Upon completion of the course students will have learned and practiced the essential skills required to develop programs for Linux systems.

### Pre-Requisites

Experience in C programming  
RH133 or equivalent UNIX or Linux workstation user skills for developers  
Shell scripting in a UNIX or Linux environment  
Experience with editors such as vi, emacs.

### Goal

Learn concepts and skills essential to programming and software development for Linux-based applications and products.

### Audience

Experienced C programmers (with UNIX or Linux workstation power user skills) interested in beginning to develop applications on Linux.

### Course Details

Course code: RHD143  
Duration: 5 days  
Starting time: 9.00 am  
Finishing time: 5.00 pm  
Lunch and refreshments are provided.

### Booking guidelines

Contact our Learning Consultants on 1300 86 87246 and we will assist you with your booking.



Learning Solutions

( 1300 86 87246  
1300 TO TRAIN

# Course Outline

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Tools and methods for developing C programs for Linux

Makefiles

Version control

Compiling, linking and debugging

Linux standards and compliance

File access system calls and I/O

Programming file and directory system services

Processes management and creation

Signals, Signal Handlers and Alarms

Inter-process communication (shared memory, semaphores, messages)

Threads

Semaphores

Pipes and FIFOs

Shared Memory

Message Queues

Sockets

Red Hat Package Manager (RPM)

Multiplexed and Asynchronous I/O