

RHD143 Red Hat Linux Programming Essentials

Course Summary

Description

This intensive hands-on course is designed to rapidly train key skills for developing applications and programs on Red Hat Linux. The 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.

Topics

- Tools and methods for developing C programs for Linux
- Shell programming essentials
- 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

Audience

This course is designed for experienced C programmers (with UNIX or Linux workstation power user skills) interested in beginning to develop applications on Linux.

Prerequisites

Students should have experience in C programming or equivalent UNIX or Linux workstation user skills for developers. Experience in Shell scripting in a UNIX or Linux environment and editors such as vi, emacs are helpful.

Duration

Five days

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