

Linux fundamentals LPI 010

A 3 day **Hands on** training course



Description

An introduction to using the Linux operating system with a focus on the command line. Appropriate for all versions of Linux. The starting point for all Linux work, we concentrate on the technical aspects rather than issues such as using browsers. The course is heavily practical in nature.

The course can be run on any Linux distribution you wish.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Describe Linux.
- ✓ Log in and use Linux commands to perform a variety of tasks from manipulating files to looking at and killing processes.
- ✓ Create and edit files with vi.
- ✓ Recognise the role of the administrator.
- ✓ Write simple shell scripts.
- ✓ Customise the user environment.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anybody who needs to use a Linux system.

Prerequisites

None.

Duration: 3 days

Overall rating:



Generic Training



Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."

G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."

M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."

J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."

V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."

S.R. Qinetiq

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Course Content

What is Linux?

Operating systems, Linux flavours, Linux distributions, open source software.

Getting started

Logging in, changing passwords, logging out.

Linux basics

Command structure. The Linux manuals, basic commands (who, date, tty, uname, echo, banner...)

Filesystem commands

Home directories, manipulating files and directories, Filesystem layout, Pathnames, hard and symbolic links. Viewing files.

The Linux editors

ed, vi, shell escapes, .exrc

Extracting data from files

grep, find, cut, sort and paste...

Permissions

Theory, chmod, chown, newgrp..

Processes and log files

ps, kill, background processes, at, exec, priorities. Managing Linux log files.

The shell

Metacharacters, piping and redirection.

Basic shell scripting

What are shell scripts? Simple scripts, control structures. Variables. Arguments.

Customising your environment

Environmental variables, stty, .profile and other startup files

More shell features

Bash and other shells, the history facility, command line editing, aliases, job control, miscellaneous features.

Introduction to administration

The root user, su. Managing users and groups.

Archiving files

Backups, tar, cpio, dd, gzip.

Linux and hardware

Main hardware components, Linux device drivers.

Connecting to a network

IP configuration, ifconfig, ping, netstat, traceroute, dig.

