

## Linux Introduction

**Duration: 3 Days**    **Course Code: LI**    **Delivery Method: Virtual Learning**

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### Overview:

#### Linux Introduction Course Overview

This Linux Operating System training course introduces the delegate to the main concepts of the LINUX Operating System. The most commonly used commands and utilities are described in detail as are the command line wildcard and redirection facilities. The course discusses the mechanisms by which a user acquires a login environment and the main features of the Bash shell are introduced. Similarly, the course is targeted to closely follow the official Linux Professional Institute (LPI) curriculum for certification. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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### Target Audience:

#### Who will the Course Benefit?

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### Objectives:

- Course Objectives
  - To provide the skills needed to work productively in the LINUX environment.
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### Prerequisites:

- There are no formal pre-requisites for this Linux Introduction training course, although an understanding of and exposure to information technology and an understanding of operating systems is required.
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### Follow-on-Courses:

#### Further Learning

- Linux Shell Programming
  - Linux System Administration (LPI)
  - Oracle SQL
  - Linux Networking
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## Content:

### Linux Introduction Training Course Course Contents - DAY 1

#### Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

#### Session 1: INTRODUCTION TO THE LINUX OPERATING SYSTEM

- A brief history of UNIX / Linux
- The UNIX / Linux kernel
- The UNIX / Linux file system structure
- File and directory management commands
- Absolute vs Relative Pathnames
- Further basic commands
- Exercise: Navigating the file system

#### Session 2: BASIC COMMANDS

- Command line syntax
- Basic file handling commands
- Basic Directory handling commands
- Filename wildcard characters
- Using commands with logical AND and OR
- Sequential command execution
- Exercise: Manipulating files and directories

#### Session 3: REDIRECTION AND PIPES

- Input and Output redirection
- Redirecting errors
- Piping commands
- Exercise: Using redirection and pipe facilities Linux Introduction Training Course Course Contents - DAY 2

#### Session 4: INTRODUCTION TO THE vi/Vim EDITOR

- Overview of the vi/Vim editor
- The language of vi
- Undoing and Redoing changes
- Input Mode and Last Line Mode
- Further vi functions
- Executing commands within vi / Vim
- Customising the vi / Vim Environment
- Getting Help
- Exercises: Using the vi editor

#### Session 5: SEARCHING AND REPLACING TEXT

- Searching and replacing text using the vi/Vim editor
- Using regular expressions (regex)
- Using sed for search and replace
- Searching for text with grep, egrep and fgrep
- Exercises: Searching and Replacing Text

#### Session 6: RECALLING AND EDITING COMMANDS

- Overview
- The bash shell
- The korn shell
- Exercises: Recall and Edit Commands

#### Session 7: FILE PERMISSIONS AND ACCESS CONTROL

- Users and user groups
- File access permissions
- Changing file attributes
- Switching users and user groups
- Linking files
- Exercise: Setting and access permissions Linux Introduction Training Course Course Contents - DAY 3

#### Session 8: FILTERING AND FORMATTING TEXT

- Overview
- The paste command
- The cut command
- An introduction to awk
- The nl command
- Exercises: Filtering Text

#### Session 9: PROCESSES

- What is a process?
- Monitoring processes
- Killing processes
- Background processes
- Job Control
- Grouping commands
- Exercise: Monitoring and controlling processes

#### Session 10: THE USER ENVIRONMENT

- Customising the .profile or .bash\_profile
- Customising the .kshrc or .bashrc
- Exercise: Setting up an environment

#### Session 11: MORE BASIC COMMANDS

- The find command
- Using xargs command
- The locate command
- The df command
- The cut command
- The sort command
- Finding duplicate content
- Number sequencing
- Exercise: More Basic Commands

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)