



## **LINUX CORPS**

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### Novice Courses

The computing laboratory at the LCO provides networked access to the in-house training facilities and the Internet.

The centre offers a wide range of computing activities for novices to Linux, with four courses designed to cover the most essential knowledge areas. From Basic System Installation, through fundamental command skills, to Advanced office applications for those wishing to move away from proprietary software, and web development using the free open-source software tools available on GNU/Linux systems.

#### *Prerequisites*

As a "Beginner" you are expected to have a basic literacy in IT, i.e. Ability to use a keyboard, an understanding of file systems, and practical experience with some of the following types of software packages - word processing, graphic image manipulation, web browser, and email.

#### **Linux Installation**

A beginner's workshop aimed at those who wish to learn the advantages and benefits of GNU/Linux. Participants will install and base configure a system ready for desktop use.

On completion of this workshop, participants will be able to install a PC with a fully functional desktop system that includes a selective range of OpenSource applications. They will have also gained the basic skills needed to be able to use and improve their knowledge of a GNU/Linux system.

You will learn:-

- ❑ **What is GNU/Linux. The principles of Open Source**
- ❑ **Minimum System/Hardware Requirements.**
- ❑ **Harddisk formatting and partitioning.**
- ❑ **Different Filesystem types.**
- ❑ **Pre-Installation checks.**
- ❑ **Choosing base installation media.**
- ❑ **Installation procedure.**
- ❑ **Set-Up/Administration Tools (YAST)**
- ❑ **Selection of Applications.**
- ❑ **Hardware configuration.**
- ❑ **What is a root user?**
- ❑ **Configuring X-windows.**
- ❑ **Choice of Window Manager**
- ❑ **Dual-booting and log-ins.**

An ideal starter for those with little or no experience of GNU/Linux and who wish to discover the current capabilities of the system for themselves in an environment where the system is in use 24/7.

### **Fundamentals of Linux**

This extensive beginners workshop provides a much broader understanding of the use of a GNU/Linux operating system, the principles, structure and capabilities of open source software. On completion, Delegates will be equipped with the knowledge required to comfortably navigate the system and to maintain, manipulate and update files and packages. This workshop covers elements included in the Linux Professional Institute's (LPI) Level One course.

You will learn how to:

- ❑ **Work with GNU/Linux Directory Structures.**
- ❑ **Apply Security - Root, Users, Groups and Permissions.**
- ❑ **Use Shell Commands - basics.**
- ❑ **Set-up and use X-windows - KDE and other Desktop Managers.**
- ❑ **Operate within a Multi-user and multi-tasking environment.**
- ❑ **Utilise System Process Management.**
- ❑ **Apply the basics of Networking and connect to remote systems.**
- ❑ **Work with commonly used Linux applications and tools.**
- ❑ **Manage File Systems and transfer information.**
- ❑ **Log-in and how to set up User Accounts.**
- ❑ **Realise the potentials and principles of free/open-source software.**
- ❑ **Install and remove application packages.**
- ❑ **Connect to External Devices - an overview.**

During this workshop, participants will become familiar with all the most commonly needed aspects of fine tuning a GNU/Linux system. On completion they will be conversant with the information needed to deal with system management in each of the component areas detailed.

## Migrating to Linux on the Desktop.

This beginners level workshop is ideal for those who are considering a move away from proprietary systems and migration to a GNU/Linux system desktop for use either at home or in the workplace. It is suitable for end users, and for office administrators who wish to be better informed about the options and human issues that will arise.

By choice, and because we believe it is the best for the purpose, we conduct the workshop using the Novell/SuSE distribution. The major differences between alternate distributions will be pointed out so that delegates will be able to make an informed choice suited to their own particular needs.

You will learn about:

- ❑ **Open Source / and what Free Software means. A synopsis.**
- ❑ **Exactly what is a GNU/Linux Distribution?**
- ❑ **X-Windows and choices of desktop interface.**
- ❑ **The Open Office tools.**
- ❑ **Graphics applications and other available open source software.**
- ❑ **Peripheral hardware - soundcards, printers, scanners, cameras, etc.**
- ❑ **Connecting to the Internet and e-mail tools.**
- ❑ **Samba - a tool to allow MS Windows and GNU/Linux to interface seamlessly.**
- ❑ **Methods that allow cross-platforming of proprietary applications.**
- ❑ **Using the Command line - where and how to find help on commands.**
- ❑ **Directory infrastructure and file handling.**
- ❑ **Updating, downloading and installing new software.**
- ❑ **Networking and Security issues.**

Often the biggest concerns we come across are:-  
*"What programs are available for the open source alternative?"*  
*"All my files are in Microsoft Word format... Will I still be able to read or change them if I switch to a different system?"*  
*"Can I run any of my existing software under GNU/Linux?"*

Such questions and more will be answered and throughout the Workshop, participants will be guided and gain hands-on experience using a GNU/Linux desktop.

## Web Design & Management

This basic workshop is aimed at those with a desire to fast track learn the skills needed to create and manage their own, or their company's web site. It also provides an introduction to web terminology and is consequently suitable for anyone needing the background knowledge to decrypt jargon when liaising with professional web developers or designers.

You will learn about:

- ❑ **The Internet - as a Global Marketplace.**
- ❑ **Planning Concepts, Web Content and Navigation.**
- ❑ **In-depth HTML Scripting to include Tables, Frames and Images.**
- ❑ **Colours, Text Layout and Graphical Design hints.**
- ❑ **Available Software/Utilities for construction of web pages.**
- ❑ **Adding Links to other pages and sites.**
- ❑ **Website Tips and Tricks.**
- ❑ **Graphic Manipulation and Image Optimisation methods.**
- ❑ **Search Engines - Are they important?**
- ❑ **Promotion of websites - How to increase website usage through Meta Tags.**
- ❑ **FTP (file transfer protocol) - How to upload files to your web space.**
- ❑ **Assessing site performance.**

This workshop provides an overall knowledge of website construction. By the end of their stay, delegates will have gained the necessary skills to create a well-structured, optimised website containing the primary components required to make it easily navigable and effective.

In addition, this workshop also provides insight into areas of website maintenance, marketing and management.