

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Linux Fundamentals

Course Description:

This course is designed to teach basic Linux user skills. It covers both command line and GUI interfaces as well as installing and setting up a Linux workstation.

Pre-requisites:

Students must have an understanding of operating system functionality and concepts. Experience with DOS or UNIX is helpful. No prior Linux knowledge is required.

Course Content:

- **Introduction to Unix**
 - What is Linux?
 - Then What is Unix?
 - A Graphical View of Unix History
 - Brief Linux History
 - Linux System Construction
 - Comparing Linux to Unix
 - Comparing Linux to Windows/DOS
 - Various Linux Distributions
 - Common Linux Resources

- **Installing Linux**
 - Hardware Requirements
 - What You Need Before Installing
 - The Install Process

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- **Getting Started**
 - Logging In
 - Basic Linux Commands
 - Using Online Help
 - Restarting and Shutting Down Linux
- **The X Window System**
 - Overview of the X Window System
 - Configuring X to Start Manually
 - Starting X Manually
 - Starting X Automatically
 - Working with Windows and Menus
- **Customizing the X Interface**
 - Adding/Removing Shortcuts
 - Modifying the Gnome Panel
- **The Shell Environment**
 - Kernel/Shell Relationship
 - Types of Shells
 - Getting to a Command Prompt
 - Executing a Shell
 - Changing the Default Shell
 - Variables
 - The Shell as a Programming Environment
- **The Bash Shell**
 - The Home Directory
 - Startup Files
 - Variables Revisited
 - Accessing Previous Commands-History
 - Command Completion
 - Colors in a Command Line
- **Linux Commands**
 - Shell Command Syntax
 - The MSG Command
 - Writing Active Users
 - Printing Files

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- **Linux Commands**
 - **The Linux FileSystem**
 - **Redirection and Pipes**
 - **Organizing Files**
 - **File/Directory Permissions**
 - **Working with Applications and Packages**
- Defining and Creating Aliases
 - The Linux FileSystem Standard (FSSTND)
 - FileSystem Structure
 - Linux Directory Structure
 - Navigating from the Command Line
 - Viewing Files/Directories in X
 - Viewing Files/Directories from the Command Line
 - Using Wildcard Characters
 - Standard Input and Output
 - Standard Output Redirection
 - Standard Input Redirection
 - Simultaneous Redirection
 - Pipes
 - The Touch Command
 - Creating Directories
 - Deleting Files and Directories
 - Copying and Moving Files and Directories
 - Moving and Renaming
 - Creating Links to a File
 - Organizing Files and Directories in X
 - What are Permissions?
 - The CHMOD Command
 - The UMASK Command
 - The CHOWN Command
 - Changing Permissions in X
 - Installing: The Traditional Unix Method

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- **Working with Applications and Packages**
 - **Working with Text Documents and Editors**
 - **Using Floppies and CDs**
 - **Power User Utilities**
 - **Network Utilities**
- Installing: The Linux Package Method (RPM)
 - Viewing and Editing Text Files in X
 - Viewing Text Files from the Command Line
 - Editing Text Files from the Command Line
 - Using the Pico Editor
 - The VIM Editor
 - Deleting and Changing Text
 - Mounting/Unmounting Filesystems
 - Mtools
 - Automounting in X
 - Regular Expressions
 - Wildcards
 - Locating Files from the Command Line
 - Locating Files from Within X
 - The GREP Command
 - Determining Disk Usage
 - The WC Command
 - The SORT Command
 - The UNIQ Command
 - The Control Panel - Network Configuration
 - Networking Commands from the Shell
 - The /ETC/Hosts File

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- **Process Management**
 - Listing Processes from Within Gnome
 - Listing Processes from the Command Line
 - Killing Processes from Within Gnome
 - Killing Processes from the Command Line
 - Background Mode Operation (&)

Course Duration:

3 Days

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