



## **MuftaSoft Linux Course. Level 1**

### **Course Description**

An introduction to fundamental end-user and administrative tools in Linux, designed for students with little or no command-line Linux or UNIX experience.

### **What you will learn:**

Prerequisites:

User-level experience with any computer system, including: use of mouse, use of menus and use of any graphical user interface.

### **Goal:**

A power user or junior administrator who can effectively install, use and perform basic configuration of a Linux or unix system.

### **Audience:**

IT professionals who want to build user-level skills before learning Linux System and Network Administration.

### **Linux Level 1**

Each Unit is of 2.5 hours duration.

### **A Tour of the Linux system.**

#### **Unit 1 - Linux Ideas and History**

- An Introduction to Linux and Open Source: what are the central ideas behind the Linux phenomenon and where do they come from?

#### **Unit 2 - Linux Usage Basics**

- Logging into the system, changing users and editing text files.

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### **Unit 3 - Running Commands and Getting Help**

- How to use built-in and online documentation to enhance your experience.

### **Unit 4 - Browsing the Filesystem**

- Understanding the locations of important directories on a Linux system and navigating them from the command line and using the graphical Nautilus and Konqueror browser.

### **Unit 5 - Users, Groups and Permissions**

- Reading and setting permissions on files and directories.

### **Unit 6 - Using the bash Shell**

- Basic tips and tricks to make Linux's default shell work for you. Topics include tab completion, history and an introduction to shell scripting.

### **Unit 7 - Standard I/O and Pipes**

- The ins-and-outs of redirecting output between programs and files.

### **Unit 8 - Text Processing Tools**

- An introduction to some of the most useful text-processing utilities in Linux, including grep, cut, sed, sort, diff and patch.

### **Unit 9 - vim: An Advanced Text Editor**

- How to get the most out of the powerful and flexible vim text editor.

### **Unit 10 - Investigating and Managing Processes**

- Listing, terminating and scheduling program executions on a Linux system.

### **Unit 11 - Basic System Configuration Tools**

- Using Linux's graphical and text-based configuration tools to manage networking, printing and date/time settings.



### **Unit 12 - Finding and Processing Files**

- In-depth coverage of using the find command and related utilities to locate and act upon files based on arbitrary criteria .

### **Unit 13 - Network Clients**

- An overview of network tools available in Linux, from web browsers to email clients and diagnostic utilities.

### **Unit 14 - Advanced Topics in Users, Groups and Permissions**

- A deeper discussion of how user and group identities are stored on a Linux system, as well as the introduction of advanced filesystem permissions like SetUID and SetGID.

### **Unit 15 - The Linux Filesystem In-Depth**

- The nuts-and-bolts of how Linux deals with filesystems. Topics include partitions, inodes, linking and archiving tools.

### **Unit 16 - Essential System Administration Tools**

- An introduction to fundamental system administration topics such as installing Linux, managing software packages, and enhancing security with SELinux and the netfilter firewall.

### **Unit 17 - So... What Now?**

- Exposure to further options for training and involvement in the larger open-source community.



**What is included in the course.**

- 42.5 hours intensive training on Linux
- Hands-on labs and exercises
- One workstation per student!
- Student materials
- Muftasoft pretest
- study aids
- handouts
- Muftasoft Exam.
- Muftasoft attendance certificate on minimum 90% attendance.
- Muftasoft Level 1 certificate on minimum 90% exam results.

Course Fees : Rs 8500 per participant. Rs 2000 per month.

Timing : Monday 10:00 – 12:30

Venue : ATRC Karachi office.