



## Linux Workstation Management (Red Hat 7.2)

**Duration:** 5 days

**Course Description:** In this course the student will install Red Hat, work with mail programs, X Windows, users and groups, the file system, job and processes, add and remove packages, archive files, and write simple shell programs.

**Audience:** Students new to Linux or Unix, but who have experience using personal computers and need to learn about Linux basics.

**Prerequisites:** Knowledge of personal computers, including hard disk management.

### Course Content

#### Lesson 1: History and Development of Linux

- Topic 1A: A Brief History of Linux
- Topic 1B: Benefits of Linux
- Topic 1C: Acquiring and Using Linux

#### Lesson 2: Installing Red Hat Linux 7.2

- Topic 2A: Gathering Installation Information
- Topic 2B: Creating Installation Disks
- Topic 2C: Partitioning the Disk
- Topic 2D: The Installation Process

#### Lesson 3: System Access

- Topic 3A: Logging In and Using the Linux System
- Topic 3B: Entering Commands
- Topic 3C: Getting Help
- Topic 3D: Obtaining Information About Your System

#### Lesson 4: Implementing Mail Services

- Topic 4A: Discussing Email Services
- Topic 4B: Using Email Clients

#### Lesson 5: The X Windows System Environment

- Topic 5A: Introduction to X Windows and GNOME
- Topic 5B: Customizing X Windows
- Topic 5C: Discussing X and the XFree86 4 X Server
- Topic 5D: Configuring X Windows

- Topic 5E: Choosing and Changing Window Managers and Desktops

#### Lesson 6: Users and Groups

- Topic 6A: Creating Additional User Accounts
- Topic 6B: Comparing root and Regular Users
- Topic 6C: Getting User Information
- Topic 6D: Managing the /etc/skel Files
- Topic 6E: Converting and Checking the Password File
- Topic 6F: Creating and Configuring Groups

#### Lesson 7: The Red Hat 7.2 Linux File System

- Topic 7A: The Linux File System
- Topic 7B: Managing the File System
- Topic 7C: Searching and Sorting Files and File Contents
- Topic 7D: The Nautilus File Manager
- Topic 7E: File System Maintenance

#### Lesson 8: Printing Files

- Topic 8A: Configuring a Local Printer
- Topic 8B: Printing
- Topic 8C: Printing to a Remote Printer

#### Lesson 9: Linux Permissions

- Topic 9A: Understanding Permissions
- Topic 9B: File and Directory Permissions

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Topic 9C: Changing Default Permissions with umask

Topic 9D: Using the emacs Editor

Topic 9E: Using the vi Editor

Topic 9F: Redirection

### Lesson 10: Starting and Stopping Linux

Topic 10A: Shutting Down a Linux System

Topic 10B: The Dual Boot

Linux/Windows System

### Lesson 11: Configuring and Enhancing the Linux Environment

Topic 11A: Understanding Shells

Topic 11B: Using Variables

Topic 11C: Examining Linux

Configuration Script Files

Topic 11D: Working with the PATH and CDPATH Variables

Topic 11E: Creating a Shell Script

Topic 11F: Using Aliases

Topic 11G: Using Functions

### Lesson 12: Multitasking

Topic 12A: Managing Jobs and Background Processes

Topic 12B: Using the Process Table to Manage Processes

Topic 12C: Introducing Delayed and Detached Jobs

### Lesson 13: Simple Shell Programming

Topic 13A: Using awk

Topic 13B: Using tr

Topic 13C: Using sed

Topic 13D: Scripting Database Processing

### Lesson 14: Archiving Files

Topic 14A: Archiving Files with tar

Topic 14B: Archiving Files with cpio

Topic 14C: Archiving Files with Other Utilities

Topic 14D: Zipping Files

### Lesson 15: Adding, Removing, and Updating Packages

Topic 15A: Examining RPM Options

Topic 15B: Querying Installed Packages

Topic 15C: Installing and Verifying Packages

Topic 15D: Upgrading and Freshening Packages