**Unix Linux Course Overview**

We offer thorough Linux and UNIX Training, you will gain skills to manage data, execute commands and customize your LINUX and UNIX programming environment. In this training, the student will get a clear technical idea about Unix. We are providing-depth training in Unix Environment. It is very useful for [**Oracle**](https://nareshit.in/oracle-training/)**Developers**, C, C++ Java Programmers, Test Engineers, SAS developers and every software engineer.

**Unix Course Prerequisite**

You have little knowledge about Operating System and its functionalities. A basic understanding on various computer concepts.

**Unix / Linux  Training Course Objective**

The purpose of this course is to give you competency as a beginning user of Unix. You will leave from this course with the ability to use Unix to perform routine file management, electronic mail, file editing, command piping and filtering, file permissions, and customizations. You will also know how to access Unix reference information and help material online so that you can gain more Unix knowledge when you require it. Receive in-depth coverage of Unix.

**Unix / Linux  Training Course Duration**

* 25 Working days, daily one and half hours

**Unix Training Content**

* Introduction to UNIX/LINUX
* History of UNIX/LINUX
* Features and Benefits of UNIX/LINUX
* Different flavors of UNIX/LINUX
* Difference between UNIX, DOS, Windows and LINUX
* Architecture of UNIX

**UNIX File System Architecture**

* Boot Block
* Super Block
* Inode Block
* Data Block

**File System of UNIX**

* Ordinary Files
* Directory Files
* Device Files
* The Structure of UNIX File system

**Different UNIX Commands**

* pwd, who, whoami
* exit, date, cal, exit, banner

**Links**

* Hard Link
* Soft link or Symbolic Link
* Unlink

**Complex Filters**

* tr, comm., tee, sed, nl

**Working with Files**

* cat, touch, rm
* cp, mv, ln, wc

**Working with Directories**

* mkdir, cd, rmdir, rm

**Displaying Files**

* ls, ls with options

**Simple Filters**

* pg, more, less, head, tail, paste, cut, sort

**Zip Files**

* gzip, gunzip, zcat, compress
* Uncompress, pack, unpack and Pcat

**Printing Files**

* lp, cancel

**Finding Files**

* find, locate etc.,

**Input and Output Redirection**

* Redirecting Output
* Redirecting Input
* Standard error

**Shell Meta Characters**

* File substitution
* I/O redirection
* Process Execution
* Quoting meta characters
* Positional parameters
* Special Parameters

**More Filters**

* grep, grep with options
* fgrep, egrep

**Regular Expressions and Patterns**

* What is Pattern?
* Usage of regular expression
* Different types of patterns

**How C programs are useful for solving problems in UNIX**

**UNIX Commands**

* Uniq
* Diff
* cmp

**Backup Utilities**

* tar, cpio

**Piping**

* Usage of piping
* Piping with filters

**File Permissions**

* chmod, chown, chgrp, umask

**Communication Commands**

* write, wall, mail, mail with options

**Networking commands**

* telnet, ftp, rlogin, finger, etc..

**Disk Utilities**

* df, du, mount, unmount

**Job Control**

* Foreground jobs
* Background jobs
* Killing jobs
* Nohup

**Prcoess Status**

* Ps
* Kill
* Pkill

**Job scheduling**

* At
* Crontab
* Batch

**ed, ex and vi editors**

* Command mode
* Insert mode
* Ex command mode

**Shell Scripting**

* What is shell scripting?
* Importance of shell scripting
* Different types of shells
* Creating Shell script
* Making shell script executable

**Shell Input and Output**

* echo, print, read

**Backslash character constants aliases and History concept variables**

* What is a variable?
* System defined variables
* Environment Variables
* User defined variables
* Constant variables
* Local and Global variables
* Special Variables
* Comments

**Operators**

* Arithmetic Operators
* Relational Operators
* Relational ASCII operators
* Logical Operators
* Assignment Operators

**Flow Control Structure**

* If, if….else
* If… elif
* Case

**Looping**

* while, until, for, break, continue

**Formatted I/O**

**Namespaces in UNIX**

**Introduction to Message Queues**

**Introduction to Different Types of System Calls**

**Programming Aspects of Berkeley Sockets & Reserved Ports**

**UNIX Domain Protocol**

**Socket Addresses**