

# Linux Fundamentals (NI200)

32 Hours

## Outline

This intensive hands-on course will teach one, proper ways to operate fundamentally the GNU/Linux operating system. The course will introduce the various methods; tools and techniques for easily work in environments built on Linux shell. This course provides intensive hands-on exercises using real world applications.

## Target Audience

- Members of the System/DevOps teams.
- System personal who would like to gain knowledge in Linux/Unix systems.
- Help desk teams.
- Novices who would like to learn basics of Linux/Unix systems.

## Prerequisites

For attending this course, students do not need to be familiar with any type of Linux/Unix operational systems. Good knowledge of pc/laptop can be useful.

## Objectives

The objectives of the course are to teach our student solid knowledge and mostly hands-on experience to enable a working person to feel him/herself comfortable working with shell environment of Linux/Unix based systems.

## Contents

### Day 1:

- Gnu/Linux History
- Distributions
- Licensing
- Installing Linux
- Linux Environment Acknowledgment.
- Working With Directories
- Working With Files
- Working With File Content
- Editors

### Day 2:

- Linux File Tree
- Commands And Arguments
- Control Operators
- Shell Variables
- Shell Embedding
- Shell History
- File globbing

### Day 3:

- Pipes And Commands
- I/O Redirection
- Filters
- Basic Unix Tools
- Regular Expressions

## Day 4:

- Introduction to user
- User management
- User passwords
- User profiles
- Groups
- Standard file permissions
- Advanced file permissions
- Access control lists
- File links