



LINUX



POSITIVE QUADRANT
TECHNOLOGIES

Programming & development

Course Curriculum

Basic – 16 Hours



LINUX

DAY 1 : 8 HOURS

Module 1 : Introduction to Linux

1.1 Overview of Linux

- History and development of Linux
- Linux distributions

1.2 Linux Basics

- Linux file system hierarchy
- Command-line interface (CLI) basics
- Basic Commands

Module 2 : Getting started with Linux

2.1 Installation

- Installing a Linux distribution (e.g., Ubuntu)
- Dual-boot setups

2.2 Basic system configuration

- User accounts and groups

Module 3 : Linux File System

3.1 File System Structure

- Understanding directories and files
- Special directories (bin)

3.2 File System Navigation



- Advanced command-line navigation

DAY 2 : 8 HOURS

Module 4 : System Administration

4.1 Package Management

- Introduction to package managers
- Installing, updating and removing software

4.2 Process Management

- Viewing and managing processes
- System resource monitoring

Module 5 : Shell Scripting

5.1 Introduction to Shell Scripting

- Basic of shell scripting
- Writing and running simple scripts

5.2 Shell Programming

- Variables, conditionals, loops

Module 6 : Networking

6.1 Basic Networking Concepts

- IP addressing
- Network configuration

6.2 Network Services

- Configuring and managing services



- Firewalls and Security

Module 7 : Troubleshooting

7.1 Log Files

- Understanding system logs
- Troubleshooting common issues

7.2 Diagnosing and Resolving Problems

- Network troubleshooting
- File system issues

