



## Description

This training is geared towards introducing the Linux environment. The Linux Basics program aims to assist users with no prior experience, enabling them to get familiar with Linux and the rudiments of automation scripting.

# LINUX FUNDAMENTALS

## Module 1: Command-Line

This module presents a comprehensive guide to understanding Linux, covering topics from its historical development, various distributions, basic commands, and terminal use to more complex topics such as file permissions, text manipulation, and handling archives. It aims to provide foundational knowledge for effectively working within the Linux environment.

### Introduction

- History of Linux
- Linux Distributions

### The Terminal

- Basic Commands
- Permissions
- Text Manipulation
- Working with Archives

## Module 2: Bash Scripting

This module introduces the fundamental aspects of Bash scripting, starting from basic programming principles, crafting Bash scripts, obtaining user input, and performing mathematical operations, to utilizing logic statements and manipulating environment variables. It's designed to equip learners with the necessary skills to automate tasks in a Unix-like operating system.

### Bash Scripting

- Introduction to Programming
- Writing Bash Scripts
- Getting User Input
- Performing Math
- Logic Statements
- Environment Variables

## Module 3: Networking

This outline provides a hands-on guide to network troubleshooting and configuring, starting from basic network problem diagnosis to package management in Linux systems. It includes practical examples of installing Debian packages and using the Advanced Packaging Tool (APT) for software management.

### Network Troubleshooting

- Network Configuring
- Basic Network Troubleshooting

### Package Management

- Installing Deb Packages
- Using the APT