

# Indus – IT Training

**Course: UNIX Training Course Curriculum**

**Duration: Five Weekends - Approx. 60hrs /(Sat & Sun: 1.30pm – 5.30pm)**

## UNIX-I

### Introduction to UNIX

- ✦ Basic Concepts.
- ✦ Architecture.

### Introduction to file systems

- File system types, structure.
- File systems administration.

### System Security

- ❖ Controlling system Access.
- ❖ Controlling File access.
- ❖ Monitoring and Auditing.

### Setting up user Accounts

- ✦ User account Administration.
- ✦ Managing privileges and groups.

### Software package administration

- Tools for managing software.
- Adding and removing software packages.
- Installing and removing system patches.

### Administration and configuration of CDE

- ❖ Managing Login Server.
- ❖ Customizing Workspaces and workspace controls. Customizing user environments.

**Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.  
Ph: 703-574-3268 Ext: 7019 / Fax: 703-935-8849 / [training@industraining.net](mailto:training@industraining.net)  
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## Shell scripts and programs and VI editor.

- ✦ Type of shells.
- ✦ Shell scripting using shell conditionals and repeated loop commands.
- ✦ Debugging shell scripts.
- ✦ Basic VI editor commands and usage.

## Printer Management

- Unix Print service management.
- Setting up hardware and software.
- Administering printers.

## Process control and management

- ❖ Viewing a process.
- ❖ Signals and process management.
- ❖ Scheduling Processes.

## Unix-II

### Installing Solaris/Linux

- ✦ Hardware Terminology.

### Device Administration

- Hardware Terminology.
- Software Terminology.
- Administering Terminal, Modems and ports.
- Adding Disks to the system and other SCSI devices such as Tape library etc.

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## Networking

- ❖ Network Fundamentals and Topologies.
- ❖ Network Protocols.
- ❖ Network Hardware.
- ❖ Planning and setting up network and routing.
- ❖ Network security.
- ❖ TCP/IP administration and commands.
- ❖ Network Maintenance.

## Advanced Shell scripting and vi editor

- ✚ Advanced shell commands.
- ✚ Basic TCL programming, awk and sed.
- ✚ Functions, filters and formatting output.
- ✚ VI editor advanced commands.

## Advanced System Administration

- Kernel tuning.
- Managing file systems and processes (advanced commands).
- Disk Management, partitioning.
- Setting up remote file systems mounting (NFS).
- NIS concepts
- DNS Concepts
- DHCP Implementation

## Backup and Recovery

- ❖ Using UNIX commands for Backup and recovery.
- ❖ Backup Strategy.

## Advanced Tips and Tricks for managing UNIX systems.

- ✚ Advanced Troubleshooting techniques.
- ✚ How to do's?
- ✚ What not to do?
- ✚ What to do when things go wrong?

## Assignments on Each Class.

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