



Course Name: Unix/Linux System Administration And Networking

Course Duration: 6 days

Format: Lecture/Lab

Accreditation: Hewlett-Packard Education Services

Course Description:

This 6 Days course is designed for customers who will be actively using the UNIX/ Linux operating system. The course provides the fundamentals of using a computer running the UNIX/ Linux operating system, and also covers topics of interest to Unix System Administrators wishing to develop and understand the skills in Linux based systems as well as prepare for the LPI Level 1 (101 & 102) exam. The materials cover both Red Hat and SUSE distributions of Linux. The Red Hat version of the course covers Red Hat Enterprise Linux Advanced Server 3.0, Fedora Core 1.0, and Fedora Core 2.0 distributors.

The SUSE version of the course covers SUSE Enterprise Linux 8.0, SUSE Linux 9.0, and SUSE Linux 9.1 distributions.

Target Audience:

System Administrator, Network Administrators, Software Developers/ Programmers, System and Network Engineer, Technical, Security Consultant and Technical Managers



Student Prerequisites:

General Computer Literacy and familiarity with network environment is required.

Course Outline:

Day 1: (Linux Basic Intensive Course):

- Module 1 Introduction to Linux / Unix
- Module 2 Logging In, Navigating File System
- Module 3 Managing Files, File Permission and Access
- Module 4 Shell Basics, & Advanced Features
- Module 5 File Name Generation
- Module 6 Quoting
- Module 7 Input and Output Redirection, Pipes
- Module 8 Using Network Services

Day 2: (Linux System Admin & Networking)

- Module 1 Linux Installation
- Module 2 Post-install System Configuration
- Module 3 Boot Process and SysV Init
- Module 4 User/Group Administration and NFS
- Module 5 Filesystem Administration
- Module 6 LVM and RAID

Day 3:

- Module 7 Task Automation & Process Accounting
- Module 8 Client Networking
- Module 9 The X Window System
- Module 10 Security Concepts
- Module 11 Linux Kernel Compilation

Day 4:

- Module 12 DNS Concepts
- Module 13 Configuration Bind
- Module 14 OpenLDAP Servers
- Module 15 Using OpenLDAP
- Module 16 Using Apache

Day 5:

- Module 17 Virtual Hosting with Apache
- Module 18 Apache Security
- Module 19 Implementing an FTP Server
- Module 20 The SQUID Proxy Server
- Module 21 Samba Concepts



Day 6:

Module 22 Using Samba

Module 23 Sendmail

Module 24 Proxfix

Module 25 IMAP, POP, Spam Filtering and Web Mail

Module 26 Troubleshooting