



LINUX COURSE

SYLLABUS



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Linux Syllabus

SLA is one of its kind Institute which not only equips you in technology skills but will train you for free in Aptitude skills, Soft Skills, Mock Interviews, Interview Skills, Work ethics and Corporate Values that you need to know to get into IT Industry. Our training is given by expert real time development experienced trainers and we enable each and every student of ours to do their own real time projects by the end of the program.

We do not buy you a job by bribing companies to secure a place in IT, instead we equip you with the skills needed to get employed in IT and will support you with unlimited number of relevant interview opportunities so that your career in IT becomes assured. Our support will be there until you get placed in an IT Company as that's our mission too.

If you want to just have an IT certification, you can do your course anywhere. If you aspire to get into an IT Job, then you should choose SLA. With SLA, your IT dream will definitely come into reality.

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Introduction to Red Hat Enterprise Linux

- ❖ GNU
- ❖ Linux
- ❖ RHEL

Introduction to GNU/Linux

- ❖ GNU Tools and Utilities
- ❖ Linux Kernels
- ❖ GNU/Linux Distributions

Installing Red Hat Enterprise Linux

- ❖ Installation Options
- ❖ Server Install
- ❖ Workstation Install
- ❖ CD Install
- ❖ Kickstart Install
- ❖ Network Install
- ❖ Customizing the Install

Booting Red Hat Enterprise Linux

- ❖ Firmware Phase
- ❖ Boot Loader Phase
- ❖ Kernel Phase
- ❖ Kernel Boot Parameters
- ❖ init Phase

Automating Programs

- ❖ Run Levels
- ❖ /etc/rc.d Files
- ❖ Customization of Run Levels
- ❖ cron and anacron
- ❖ at and batch

Login Options

- ❖ Console Logon
- ❖ Controlling Console Login
- ❖ Virtual Consoles
- ❖ Serial Login
- ❖ Remote Login
- ❖ ssh Login

Building a Custom Linux Kernel

- ❖ Kernel Versions
- ❖ Kernel Source Files
- ❖ Kernel Patch Files
- ❖ Kernel Configuration
- ❖ Kernel Building
- ❖ Testing a New Kernel

The GNU/Linux Filesystem

- ❖ Partition Types
- ❖ Filesystem Types
- ❖ Mounting
- ❖ Automount
- ❖ File Types
- ❖ File Security

Key Filesystem Locations

- ❖ Boot Files
- ❖ User Files
- ❖ Administrator Files
- ❖ Configuration Files
- ❖ Log Files

The /proc Pseudo Filesystem

- ❖ Process Info
- ❖ Kernel Config Info
- ❖ Hardware Info
- ❖ Changing /proc Info
- ❖ Sysctl

BASH – Borne Again Shell

- ❖ Key /bin Commands
- ❖ Key /sbin Commands
- ❖ History
- ❖ man and info
- ❖ vi
- ❖ Using Shell Scripts

User Management

- ❖ Users and Groups
- ❖ Home Directories
- ❖ Password Files
- ❖ PAM
- ❖ Quotas
- ❖ NIS Intro

Software Management

- ❖ tar Files
- ❖ Patch Files
- ❖ RPM

Hardware Management

- ❖ Types of Devices
- ❖ /dev Namespace
- ❖ Modules

Network Management

- ❖ Types of Network Devices
- ❖ Monitoring Network Devices
- ❖ Controlling Network Services
- ❖ xinted
- ❖ iptables

Network Services – Part I

- ❖ DHCP
- ❖ DNS
- ❖ SSH

Network Services – Part II

- ❖ FTP
- ❖ NFS
- ❖ Samba

Network Services – Part III

- ❖ Sendmail
- ❖ Apache
- ❖ Squid Proxy Server

The X Window System

- ❖ X Servers and X Clients
- ❖ XFree86
- ❖ X Fonts
- ❖ GTK and KDE

The X Window System

- ❖ X Servers and X Clients
- ❖ XFree86
- ❖ X Fonts
- ❖ GTK and KDE
- ❖ Exam Practice
- ❖ Installation Challenges
- ❖ Configuration Challenges
- ❖ Troubleshooting Challenges

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