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## Level 1 - Foundations

The Linux course is designed for the trainees to get expertise on Enterprise Level Linux Hands on Experience in driving and operating Linux Based Deployments.

### Course Objectives

- ✧ Introduction to the command line
- ✧ Managing physical storage
- ✧ Learning how to install and configure software components and services
- ✧ Establishing network connections and firewall access
- ✧ Monitoring and managing processes
- ✧ Managing and securing files
- ✧ Administrating users and groups
- ✧ Accessing Linux file systems
- ✧ Installing and using virtualized systems
- ✧ Reviewing the system log files and journal

## **Detailed Course Outline**

- 1: Access the command line.
- 2: Manage files from the command line
- 3: Create, view, and edit text files
- 4: Manage local Linux users and groups
- 5: Control access to files with Linux file system permissions
- 6: Monitor and manage Linux processes
- 7: Control services and daemons
- 8: Configure and secure OpenSSH service
- 9: Analyze and store logs
- 10: Manage networking
- 11: Archive and copy files between systems
- 12: Install and update software packages
- 13: Access Linux file systems
- 14: Use virtualized systems
- 15: Comprehensive review

## Level 2: Intermediate

### Course objectives

- ✧ Installation using Kickstart
- ✧ Manage file systems and logical volumes
- ✧ Manage scheduled jobs
- ✧ Access network file systems
- ✧ Manage SELinux
- ✧ Control firewalling
- ✧ Troubleshooting

### **Detailed Outline:**

- 1: Automate installation with Kickstart
- 2: Use regular expressions with grep
- 3: Create and Edit text files with vim
- 4: Schedule future Linux tasks
- 5: Manage priority of Linux processes
- 6: Control access to files with access control lists (ACL)

- 7: Manage SELinux security
- 8: Connect to network-defined users and groups
- 9: Add disks, partitions, and file systems to a Linux system
- 10: Manage logical volume management (LVM) storage
- 11: Access networked attached storage with network file system (NFS)
- 12: Access networked storage with SMB
- 13: Control and troubleshoot the boot process
- 14: Limit network communication with firewall
- 15: Comprehensive review

## **Level 3: Advanced Level**

Course is designed for experienced Linux administrators for mastering techniques for deployment of network services includes DNS,APACHE HTTPD, POSTFIX. MAIL SERVER, NFS ,SAMBA,ISCSI STORAGE, FIREWALLD etc.

Detailed Outline:

- 1: Controlling Services and Daemons
- 2: Managing Networking
- 3: Configuring Link Aggregation and Bridging
- 4: Network Port Security
- 5: Configuring and Managing DHCP
- 6: Managing DNS for Servers
- 7: Configuring Email Transmission
- 8: Providing Remote Block Storage
- 9: Providing File Based Storage, RAID
- 10: Providing Apache HTTPD Web Service
- 11: Configuring FTP

The training will be carried on RHEL OS/CENT OS