Linux Administration Course in Chennai

Master Red Hat Enterprise Linux 10 and Prepare for RHCSA (EX200) in 8 Weeks.

An 8-week, practical RHCSA-focused course on Red Hat Enterprise Linux 10. Learn to manage files, users and permissions, secure systems with SELinux and firewalld, administer storage with LVM, control services and the boot process, analyse logs and configure networking, then extend your skills with optional Docker and Ansible modules.

Your Trainers

Shravanth — Linux Architect, Cloud Architect & DevOps Technical Specialist
14+ Years of IT Industry Experience

Manoj S — Linux, Cloud & DevOps Technical Specialist
7+ Years of IT Industry Experience

Course Curriculum

Phase 1: Foundations Weeks 1–2 · Chapters 1–6

Linux foundations, access control and performance.

01. Access Systems and Obtain Support Week 1

- Edit text files
- Configure SSH keys
- Access documentation and support
- System diagnostics and Insights

02. Manage Files from the Command Line Week 1

- Linux filesystem hierarchy
- Hard and symbolic links
- Globbing and shell expansion
- File management

03. Manage Local Users and Groups Week 1

- Users and groups
- Sudo and superuser access
- Account and password administration

04. Control Access to Files Week 2

- Ownership and permissions
- Umask and default permissions
- File access control lists (ACLs)

05. Manage SELinux Security Week 2

- SELinux modes
- File contexts
- Booleans
- Troubleshoot access denials

06. Tune System Performance Week 2

- Processes and signals
- Monitoring
- Tuning profiles
- Nice and renice

Phase 2: System Administration Weeks 3–4 · Chapters 7–10

Scheduling, software packages and storage administration.

07. Schedule Future Tasks Week 3

- Cron jobs
- Recurring system tasks
- Systemd timers
- Temporary file management

08. Install and Update Software Packages Week 3

- Red Hat registration
- DNF and RPM
- Repositories
- Software updates

09. Manage Basic Storage Week 4

- Mounting
- Partitions and filesystems
- Persistent fstab mounts
- Swap

10. Manage Storage Stack Week 4

- LVM physical volumes, volume groups and logical volumes
- Extend storage
- Layered storage

Phase 3: Security, Networking & RHCSA Review Weeks 5–7 · Chapters 11–17

Services, boot and logging, networking and security, then a full RHCSA review.

11. Control Services and Boot Process Week 5

- Systemd units and targets
- Manage services
- Root password recovery

- Boot repair

12. Analyze and Store Logs Week 5

- System logging
- Rsyslog and journalctl
- Persistent journal
- Time synchronization

13. Manage Networking Week 6

- Validate networking
- Configure IP with nmcli
- Hostnames and DNS
- Troubleshoot connectivity

14. Access Network-Attached Storage Week 6

- NFS mounts
- Persistent network storage
- Autofs automount

15. Manage Network Security Week 6

- Firewalld zones, services and ports
- Test firewall rules

16. Booting Process Week 7

- Linux boot sequence
- GRUB2 bootloader
- Systemd targets
- Boot troubleshooting and recovery

17. Comprehensive RHCSA Review Week 7

- Integrated labs: boot, storage, SELinux, users, networking and services

Phase 4: Extensions (Optional Add-Ons) Week 8 · Chapters 18–19

Optional modules included in the Linux + Docker + Ansible package.

18. Docker Containers Week 8

- Docker images, containers and commands
- Dockerfiles
- Volumes, networking and Compose basics

19. Ansible Automation Week 8

- Inventory and SSH
- Ad-hoc commands
- YAML playbooks
- Variables, handlers, roles and administration automation

Projects & Hands-On Labs

Storage with LVM
Create partitions and filesystems, build volume groups and logical volumes, extend storage and make mounts and swap persistent.

SELinux & Firewall Hardening
Set SELinux modes, fix file contexts and booleans, troubleshoot access denials, and lock down services with firewalld zones.

Boot Recovery & Root Password Reset
Recover a system that will not boot, reset a lost root password, and switch systemd targets safely.

Comprehensive RHCSA Practice
Integrated labs covering boot, storage, SELinux, users, networking and services, run as an exam-style practice.

Enrol & Contact

Book a free demo class or a 1-on-1 counselling session.
Call / WhatsApp: +91 89399 15577
Email: contact@greenstechnologys.com
Website: www.greenstechnologys.com
25 centres across Chennai, Bengaluru, Coimbatore, Trichy and Salem, plus live online batches. Curriculum may be updated by the trainer to reflect current industry practice.