# RHCSA EX200 Certification Bootcamp: Red Hat System Administration

20 – 24 September 2027
Baku

AGILE LEADERS
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## Overview

Enterprise IT infrastructures require stable and secure Linux environments to maintain system uptime, data integrity, and compliance across hybrid operating platforms. This hands-on program develops practical capabilities in Red Hat System Administration, focusing on standard administrative procedures, core configuration utilities, and operational troubleshooting. Participants review command-line tools, user access boundaries, storage layouts, network settings, and security controls needed to operate enterprise Red Hat Enterprise Linux installations efficiently. Professionals conclude the bootcamp equipped with reusable deployment scripts, storage management procedures, and service configuration runbooks. This course is delivered by Agile Leaders Training Center.

## Who Should Attend

- Administrators responsible for provisioning and maintaining enterprise Linux operating systems across server fleets.
- Specialists responsible for configuring local storage partitions, logical volumes, and network file shares.
- Engineers responsible for managing user authorization, file permissions, and access control policies.
- Support technicians responsible for diagnosing system boot sequences, service failures, and process performance issues.
- Security personnel responsible for enforcing mandatory access controls and firewall filtering rules.

## Departments and Industries

This program supports technical operations and infrastructure engineering teams across mission-critical enterprise environments.

- Infrastructure Operations Teams in Commercial Banking and Financial Services
- Platform Engineering Units in Telecommunications and Network Operations
- Systems Support Departments in Healthcare Information Systems
- IT Infrastructure Divisions in Transport and Logistics Management
- Data Centre Operations Groups in Cloud Hosting and Managed Services

## Learning Objectives

By the end of this course, participants will be able to:

- Apply command-line utilities to configure essential system settings and system files.
- Build scalable storage architectures using Logical Volume Manager and file system quotas.
- Prioritise user authentication controls using group permissions and access control lists.
- Diagnose service interruptions using systemd journal logs and process monitoring utilities.
- Use NetworkManager and firewalld to configure network interfaces and firewall packet filters.
- Evaluate security enforcement policies using Security-Enhanced Linux operational modes.

## Course Agenda

### Day 1: Essential Command-Line and System Access Management

- Shell Command Execution and File System Navigation using Bash Utilities
- File and Directory Access Control using Posix Permissions and Access Control Lists
- Local User and Group Administration using Shadow Password Suites
- Task Scheduling and Job Automation using Systemd Timers and Cron Services
- Process Lifecycle Monitoring and Resource Management using Systemd and Kill Signals

### Day 2: Storage Configuration and File System Management

- Physical Disk Partitioning using GUID Partition Table Utilities
- Logical Volume Provisioning using Logical Volume Manager Workflows
- File System Formatting and Mounting using XFS and EXT4 Management Tools
- Automated File System Mounting using File Systems Table Configurations
- Network File Sharing Integration using Network File System Client Mounts

### Day 3: Network Operations and System Security Controls

- IPv4 and IPv6 Network Interface Configuration using NetworkManager CLI Tools
- Host Name Resolution and Time Synchronization using Chrony Daemon Configurations
- Firewall Port and Service Traffic Filtering using Firewalld Packet Management
- Mandatory Access Control Enforcement using Security-Enhanced Linux Contexts
- SELinux Policy Troubleshooting using Audit Logs and Boolean Toggles

### Day 4: Software Deployment and Service Management

- Package Management and Software Repository Mirroring using DNF and RPM Tools
- System Boot Target Administration and Unit File Management using Systemctl
- Basic Container Execution and Image Management using Podman CLI Workflows
- Secure Remote Shell Administration using OpenSSH Configuration Profiles
- System Event Auditing and Central Log Monitoring using Rsyslog and Journalctl

## Day 5: Troubleshooting, Automation, and Capstone Configuration

- Single-User Emergency Target Recovery using Grand Unified Bootloader Parameter Overrides
- Root Password Reset and File System Repair using Recovery Shell Environments
- Basic Shell Scripting for Routine Administration using Bash Templates
- Storage Resizing and Volume Group Recovery using Logical Volume Repair Procedures
- Capstone Enterprise Red Hat System Administration Deployment and Verification Review

## Practical Exercises

Participants complete structured administrative scenarios to reinforce enterprise system management procedures.

- Suggested activity: Configure a Logical Volume Manager storage pool with custom mount options and dynamic volume expansion.
- Suggested activity: Establish a hardened firewall profile and configure SELinux contexts for an Apache HTTP server.
- Suggested activity: Execute a single-user bootloader intervention to regain system control and repair broken file system entries.
- Suggested activity: Deploy and isolate a containerised application using Podman commands and rootless execution profiles.

## FAQs

### What administrative tools are central to this curriculum?

The program focuses on native Linux administration utilities including systemd, Logical Volume Manager, NetworkManager, firewalld, SELinux command utilities, Podman, and the DNF package manager on Red Hat Enterprise Linux.

### Are container technologies covered in the syllabus?

Yes. Participants examine rootless container deployment, container image retrieval, and basic process management using the Podman container engine on modern Linux platforms.

### How are troubleshooting techniques practiced?

Participants diagnose broken boot targets, manipulate GRUB bootloader parameters, address SELinux permission denials via audit logs, and recover degraded storage volumes through directed technical exercises.

### Does the agenda cover network configuration?

The syllabus covers network device addressing, host name resolution, NTP time synchronization via chrony, and perimeter packet filtering through firewalld zones and rich rules.

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## Conclusion

Participants return to their organizations ready to configure, maintain, and troubleshoot enterprise Linux platforms with technical discipline. By mastering storage management, security hardening, user access governance, and recovery protocols, administrators ensure system availability and support consistent infrastructure performance across demanding organizational environments.