



RED HAT TRAINING

Rh343 Red Hat Enterprise Linux Diagnostics Troubleshooting Course

Master Red Hat Enterprise Linux diagnostics & troubleshooting to efficiently resolve complex system issues.

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH343) course is expertly designed to equip experienced Linux system administrators and engineers with the critical skills needed to diagnose and resolve complex issues within Red Hat Enterprise Linux environments. This intensive program delves deep into advanced troubleshooting methodologies, teaching you how to systematically identify root causes, interpret system behavior, and implement effective solutions for a wide array of system malfunctions, performance bottlenecks, and service disruptions. You will gain hands-on experience with powerful diagnostic tools and techniques, covering everything from system startup failures and kernel panics to network connectivity problems, storage subsystem issues, and application performance degradation.

This course emphasizes a practical, hands-on approach, ensuring you not only understand the theoretical underpinnings of RHEL diagnostics but also develop the practical expertise to apply this knowledge in real-world scenarios. By mastering the core technologies and diagnostic utilities inherent to RHEL, you will significantly enhance your ability to minimize downtime, improve system stability, and ensure the continuous operation of critical business services. Successfully completing RH343 will elevate your profile as a highly competent and indispensable RHEL professional, capable of tackling even the most challenging system incidents with confidence and precision.

Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Troubleshooting Methodology and Tools

- Systematic troubleshooting approach
- Introduction to key diagnostic tools (strace, lsof, tcpdump, sosreport)
- Understanding system logging (journalctl, rsyslog)
- Analyzing core dumps and crash information

02 Module 2: System Performance and Resource Utilization

- CPU, memory, and I/O performance monitoring (top, vmstat, iostat, sar)
- Identifying and resolving process bottlenecks
- Tuning system parameters for optimal performance
- Understanding OOM (Out Of Memory) killer events

03 Module 3: Storage and File System Issues

- Diagnosing disk space and inode problems
- Troubleshooting LVM (Logical Volume Manager) issues
- Recovering corrupted file systems (xfs_repair, fsck)
- NFS/SMB mounting and access problems
- RAID and storage device failures

04 Module 4: Network Diagnostics and Troubleshooting

- IP networking fundamentals review
- Diagnosing connectivity issues (ping, traceroute, ip, ss, netstat)
- Firewall (firewalld) and routing table troubleshooting
- DNS resolution problems
- Network interface card (NIC) issues and bonding

05 Module 5: System Boot and Kernel Issues

- Understanding the RHEL boot process (GRUB, systemd targets)
- Troubleshooting boot failures
- Kernel panic analysis
- Resolving issues with kernel modules
- System service startup failures

06 Module 6: Application and Security Troubleshooting

- Diagnosing issues with systemd services and units
- Troubleshooting application-specific problems (Apache, Nginx, databases)
- SELinux policy enforcement and denials
- User authentication and authorization issues (PAM, SSSD)
- Auditing system activities for security breaches

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Red Hat Enterprise Linux Administrator**
- > **Linux Systems Reliability Engineer**
- > **IT Operations & Support Specialist (Tier 2/3)**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites for effectively undertaking the Red Hat Enterprise Linux Diagnostics Troubleshooting (RH343) course?

This course is designed for experienced Linux system administrators. Participants should have a solid understanding of fundamental Red Hat Enterprise Linux administration, including managing users and groups, configuring networking, managing storage with LVM, and working with systemd services. Prior experience equivalent to completing the Red Hat System Administration III (RH294) course or holding a Red Hat Certified System Administrator (RHCSA) certification is highly recommended.

Q: How will mastering the diagnostic and troubleshooting techniques taught in RH343 directly enhance my daily responsibilities in a production RHEL environment?

The RH343 course will transform your approach to system incidents by providing a structured methodology and advanced toolset to quickly identify, diagnose, and resolve complex issues. You'll gain the ability to rapidly pinpoint root causes of performance degradation, service outages, and system failures, significantly reducing Mean Time To Resolution (MTTR). This translates into improved system uptime, greater operational efficiency, and increased confidence in managing critical RHEL infrastructure.

Q: Does the Red Hat Enterprise Linux Diagnostics Troubleshooting (RH343) course lead to a specific Red Hat certification, or is it purely focused on practical skill development?

While RH343 is primarily focused on developing hands-on practical skills in advanced RHEL diagnostics and troubleshooting, it serves as excellent preparation for the Red Hat Certified Engineer (RHCE) exam (EX300) and other advanced Red Hat certifications. The skills acquired are foundational for roles requiring expert-level troubleshooting

capabilities and contribute significantly to the knowledge domain tested in many higher-level Red Hat exams, though it does not directly map to a single exam for certification itself.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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Take the next step in your technology career.

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