

**Course Description:**

Troubleshooting is both an art and a science. An instinct and a technique. In Red Hat Linux Troubleshooting (RH242), system administrators will learn techniques for troubleshooting a Linux system and how to use the troubleshooting tools available on Red Hat Enterprise Linux. This course is a four-day, heavily lab-oriented class designed to help the student learn or improve troubleshooting skills. Students will gain troubleshooting experience by debugging live, virtualized systems.

**Who Should Attend:**

This course is for Linux system administrators who understand how to install and configure a Red Hat Enterprise Linux system and who wish to deepen their understanding of troubleshooting on Linux.

**Prerequisites:**

Students must have successfully completed Red Hat System Administration I and II or RHCSA Rapid Track course, be a RHCSA certification holder or equivalent experience, and possess system administration knowledge under Red Hat Enterprise Linux.

**Benefits of Attendance:**

Upon completion of this course, students will be able to:

- Understand troubleshooting techniques
- Understand troubleshooting boot issues: working with advanced GRUB features, rescue and GRUB CDs, advanced ext2/ ext3 filesystem repair, rescuing RAID and LVM volumes
- Understand troubleshooting hardware: listing, testing, and analyzing devices
- Understand troubleshooting applications: diagnosing performance problems and investigating application/OS interactions
- Understand troubleshooting the network: configuration, testing, and diagnosing problems with basic and advanced configurations
- Work effectively with (and not against) security tools, including SELinux, SSL, and authentication
- Make the most of Red Hat support resources

**Course Outline:**

Introduction to troubleshooting techniques, including being prepared

Troubleshooting hardware, including listing, testing, and analyzing devices

Troubleshooting applications, including diagnosing performance problems and investigating application and OS interactions

Troubleshooting disks and file systems, including LVM, LUKS, ext3/4, and unauthorized changes

Troubleshooting the network, including configuring, testing, and diagnosing problems with basic and advanced configurations

Security, including working effectively with (and not against) security tools like SELinux, authentication, and firewall

Making the most of Red Hat support resources