

## **RH342: Red Hat Enterprise Linux Diagnostics and Troubleshooting**

Course Code: RH342

Duration: 4 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### **OVERVIEW**

Diagnose problems, gather information, and fix common issues with Red Hat Enterprise Linux.

The Red Hat Enterprise Linux Diagnostics and Troubleshooting course (RH342) provides system administrators with the tools and techniques they need to successfully diagnose, and fix, a variety of potential issues. Students will work through hands-on problems in various subsystems to diagnose and fix common issues.

Students will learn how to apply the scientific method to a structured form of troubleshooting. This approach is then used troubleshooting various types of problems, including boot issues, hardware issues, storage issues, RPM issues, network issues, third-party application issues, security issues, and kernel issues. At the end of the course students can complete various comprehensive review labs to test their skills. This course is based on Red Hat Enterprise Linux 7.2.

### **SKILLS COVERED**

- Use the scientific method to approach troubleshooting
- Troubleshoot boot issues
- Troubleshoot security issues
- Troubleshoot storage issues
- Troubleshoot network issues

### **WHO SHOULD ATTEND?**

The Red Hat Enterprise Linux Diagnostics and Troubleshooting course is aimed at senior system administrators who wish to learn more about troubleshooting.

### **PREREQUISITES**

The Red Hat Enterprise Linux Diagnostics and Troubleshooting course is aimed at senior system administrators who wish to learn more about troubleshooting.

### **MODULES**

#### **Module 1: Introduction to Troubleshooting**

- Describe a generalized strategy for troubleshooting.

#### **Module 2: Take Proactive Steps to Prevent Small Issues**

- Prevent small issues from becoming large problems by employing proactive system administration techniques.

#### **Module 3: Troubleshoot Boot Issues**

- Identify and resolve issues that can affect a system's ability to boot.

#### **Module 4: Identify Hardware Issues**

- Identify hardware problems that can affect a system's ability to operate.

#### **Module 5: Troubleshoot Storage Issues**

- Identify and fix issues related to storage.

#### **Module 6: Troubleshoot RPM Issues**

- Identify and fix problems in, and using, the package management subsystem.

**Module 7: Troubleshoot Network Issues**

- Identify and resolve network connectivity issues.

**Module 8: Troubleshoot Application Issues**

- Debug application issues.

**Module 9: Deal with Security Issues**

- Identify and fix issues related to security subsystems.

**Module 10: Troubleshoot Kernel Issues**

- Identify kernel issues and assist Red Hat Support in resolving kernel issues.

**Module 11: Red Hat Enterprise Linux Diagnostics and Troubleshooting Comprehensive Review**

- Practice and demonstrate knowledge and skills learned in Red Hat Enterprise Linux Diagnostics and Troubleshooting.

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