



Red Hat Certified Engineer Rapid Track

The Red Hat Certified Engineer™ course is designed for UNIX- and Linux-experienced users, networking specialists, and system administrators. Once participants have completed the training and exam, they will then be able to: install and configure Red Hat Enterprise Linux; understand limitations of hardware; configure networking and file systems; configure the X Window System; configure security, set up common network (IP) services, carry out diagnostics and troubleshooting, and perform essential Red Hat Enterprise Linux system administration.

This 5-day course provides intensive hands-on training on Red Hat Enterprise Linux 5, and includes the RHCE Certification Lab Exam on day 5.

Please visit www.redhat.com for course pre-requisites and the exam study guide.

You Will Learn

Package Management

- Manage software on system using yum, Red Hat Network, and rpm

System Initialization and Kernel Services

- Define boot process, recover system and manage service startup
- Explore kernel modules and variants, tune kernel parameter and manage devices

System Services and Security

- Configure and access various consoles to manage system logging, printer and task automation
- Manage local system security utilizing Pluggable Authentication Modules (PAM) and Security Enhanced Linux (SELinux)

Filesystem Management

- Expand storage by adding new filesystems and swap space. Configure autofs for on-demand network storage.
- Manage filesystem using Software RAID and Logical Volume Management

User Administration

- Create, modify and delete users, groups, and policy. Escalate privileges. Establish collaborative group directories
- Protect users and groups through ACLs and quotas

Installation and Virtualization

- Perform both interactive and automated installations of Red Hat Enterprise Linux
- Install the xen environment and create a para-virtualized user domain running Red Hat Enterprise Linux

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Network Configuration

- Configure dynamic and static network settings for both IPv4 and IPv6
- Secure OpenSSH service keys
- Revisit user administration by connecting to network directory services like NIS and LDAP

Network Security

- Protecting services using TCP Wrappers
- Protecting the system using a packet filtering host-based firewall

Network Infrastructure Services

- Centralize logging
- Distribute network addresses with a DHCP server
- Maintain time synchronization with NTP
- Establish name resolution through caching and slave DNS server utilizing BIND

Web Services

- Configure the Apache web server
- Extend web server utilizing virtual hosting
- Configure the Squid web proxy cache

Network File Sharing Services

- Set up an FTP server with vsftpd
- Share files with an NFS server
- Network with Windows systems utilizing Samba

Mail Services

- Switch MTAs
- Configure an MTA with sendmail and postfix
- Implement mail retrieval using POP3/POP2S/IMAP/IMAPS through dovecot

Troubleshooting

- Explore troubleshooting methodologies while defining standard things to check. Maintain system from different runlevels. Utilize the rescue environment to anaconda.

Who Should Attend

UNIX or Linux system administrators who have significant real-world experience with UNIX or Linux systems administration and some experience setting up key networking services such as HTTP, DNS, NIS, DHCP, and who want a fast-track course to prepare for the RHCE Exam.



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Life Cycle Institute and Red Hat

Be prepared to be an active learner. When you invest in training with the Life Cycle Institute, you will gain knowledge and learn skills that you will be able to apply immediately. Our courses are designed to teach by doing. Your training with the Life Cycle Institute is different because we offer:

- Facilitators who practice what they teach and teach what they practice
- Course content that is constantly updated with the latest proven tools and methods
- Adult learning methods that minimize lecture and emphasize learning by doing
- Classrooms that are specifically designed to facilitate learning

RHCE Certification

The certification exam consists of two parts conducted on the last day of class. The exam is performance-based, meaning that candidates must perform tasks on a live system, rather than answering questions about how one might perform those tasks.

The two parts of the RHCE Exam consist of:

Section I: Troubleshooting and System Maintenance (2.5 hours)

Section II: Installation and Configuration (3 hours)

In order to pass the Red Hat Certified Engineer exam, you must meet all of the following requirements:

- a score of 80 or higher on Section I, consisting of compulsory and optional problems;
- successful completion of the Section I compulsory troubleshooting problems within one hour of that section's start time;
- 70 percent or more on the RHCT-level skills in Section II;
- 70 percent or more on the RHCE-level skills in Section II.

These last two requirements enable RHCEs to demonstrate that they possess both RHCT-level and RHCE-level skills, as well as enabling a person who only has RHCT level skills to earn RHCT if they pass the required competencies.

Candidates will be emailed exam results within three business days following the exam.

Scheduling & Pricing

Date: October 12 – 16, 2009

Cost: \$2,998

Location: Life Cycle Institute, 4360 Corporate Road, Charleston, SC 29405

Registration: 800-556-9589 • education@LCE.com • www.LCE.com

Each course includes morning and afternoon refreshments, lunch, and the use of a fully equipped e-business center. Class hours are 8:00am to 5:00pm