

## Red Hat OpenStack Administration with Expertise Exam (CL 211)

### COURSE OVERVIEW:

Learn how to install, configure, and maintain a cloud computing environment using Red Hat Enterprise Linux OpenStack Platform.

This course teaches system administrators how to implement a cloud computing environment using Red Hat® Enterprise Linux® OpenStack Platform, including installation, configuration, and maintenance. Through hands-on labs, students will explore fault-tolerant and redundant configurations of Red Hat Enterprise Linux OpenStack Platform and look at the future plans of the OpenStack development community. This course can also help you prepare for the Red Hat Certified System Administrator in Red Hat OpenStack Exam (EX210).

### WHO WILL BENEFIT FROM THIS COURSE?

Linux system administrators and cloud administrators interested in or responsible for maintaining a private cloud.

### PREREQUISITES:

Red Hat Certified System Administrator (RHCSA) certification or equivalent knowledge and experience.

### COURSE OBJECTIVES:

This version of the course includes the Red Hat Certified System Administrator in Red Hat OpenStack Exam (EX210). The exam tests candidates' abilities to needed to create, configure, and manage private clouds using Red Hat Enterprise Linux®\_OpenStack®\_Platform.

- Get an overview of the Red Hat Enterprise Linux OpenStack Platform architecture
- Install Red Hat Enterprise Linux OpenStack Platform using packstack and Foreman
- Deploy each Red Hat Enterprise Linux OpenStack Platform service manually
- Manage users and projects
- Deploy instances, and use Heat to deploy and customize instances

### COURSE OUTLINE:

#### Red Hat Enterprise Linux OpenStack Platform architecture

- Understand Red Hat Enterprise Linux OpenStack Platform features and terminology.

#### Red Hat Enterprise Linux OpenStack Platform installation

- Install Red Hat Enterprise Linux OpenStack Platform using packstack and Foreman.
- Create an instance with the Horizon web front-end.

#### Qpid message broker

- Install and configure the Qpid message broker service.
- Secure Qpid using authentication and encryption.

#### Keystone identity service

- Install, configure, and use the Keystone authentication services.

**Swift object storage service**

- Install, configure, and use the Swift object storage service.

**Glance image service**

- Install and use the Glance image service.

**Cinder block storage service**

- Install the Cinder block storage service.
- Manage Cinder volumes.

**Networking service**

- Install, configure, and manage Red Hat Enterprise Linux OpenStack Platform networking service.

**Nova compute and controller services**

- Install Nova compute and controller services.
- Deploy an instance from the command line.

**Implement an additional compute node**

- Learn to add and remove additional Nova compute nodes.

**Heat orchestration service**

- Install the Heat orchestration service.
- Launch a stack using preconfigured templates

**Ceilometer metering service**

- Install and manage the ceilometer metering service.

**The future of the OpenStack development community**

- Learn about the future of OpenStack.

**Comprehensive review**

- Review the installation and management of Red Hat Enterprise Linux OpenStack Platform.

**SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:**

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

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- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

**Enhanced Learning Experience**

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience