

# EX294: RHCE – Red Hat Certified Engineer

Automate Red Hat Enterprise Linux at scale with Ansible and prepare thoroughly for the hands-on RHCE exam.

**DURATION**

5 days · 40 hours

**LEVEL**

Advanced

**CURRICULUM**

13 modules · 8 labs

**DELIVERY**Live online, Onsite,  
Corporate

## Course overview

RHCE proves that you can automate Red Hat Enterprise Linux administration with Ansible — not just write a playbook, but build reliable, reusable automation under time pressure. This five-day course gives you the extra practice time that a performance-based exam demands.

Day one revisits the RHCSA skills that the exam expects you to automate, then sets up the Ansible control node, inventories and configuration. Day two covers playbooks, variables, facts and Ansible Vault. Day three adds task control — loops, conditionals, handlers and error handling — along with Jinja2 templates and file management.

Day four is about structure and reuse: roles, RHEL system roles, Ansible Content Collections, automation content navigator and managing content from multiple sources. You will automate storage, users, services, firewall rules, SELinux settings and scheduled jobs across several managed nodes.

Day five is dedicated to exam readiness: a full-length timed practice exam on a fresh environment, a detailed debrief, and focused rework on the areas that caused the most trouble.

This course is aligned to the Red Hat Certified Engineer (RHCE) exam, EX294. Ace Skills is not a Red Hat training partner and does not use official courseware. RHCE requires RHCSA; please confirm current objectives on the Red Hat website before booking.

### Highlights

- 40 hours of live, trainer-led sessions
- Multi-node RHEL lab for every learner
- Playbooks, Vault, templates, roles and collections
- RHCSA tasks automated end to end
- Full-length timed practice exam with debrief

### What's included

- Multi-node RHEL lab environment
- RHCSA revision built into day one
- Vault, templates, roles and collections
- RHEL system roles in practice
- Full-length timed practice exam
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support

## Who this course is for

### Who should attend

- RHCSA holders progressing to RHCE
- Linux administrators automating their estate
- DevOps and platform engineers
- Infrastructure teams standardising server builds

### Prerequisites

- RHCSA certification or equivalent skills
- Confident with the Linux command line and vim
- Basic YAML is helpful but not required

## Detailed curriculum — 5 days, 40 hours, 13 modules, 8 hands-on labs

### Day 1 RHCSA Revision and Ansible Setup

8 hours

#### 1.1 RHCSA skills refresher

- Users, groups and permissions
- Services and targets
- Scheduled jobs
- Storage and LVM
- Firewall and SELinux

#### 1.2 Ansible architecture

- Control and managed nodes
- Ansible Automation Platform overview
- Modules and idempotence

#### 1.3 Control node setup

- Installing Ansible
- ansible.cfg and privilege escalation
- Inventories and groups
- SSH keys and become

**LAB** Prepare a control node and four managed nodes · 50 min

### Day 2 Playbooks, Variables and Vault

8 hours

#### 2.1 Playbooks

- Ad hoc commands
- Check mode and diff
- Plays, tasks and modules
- Module documentation

**LAB** Deploy and configure web servers with a playbook · 45 min

#### 2.2 Variables and facts

- Variable precedence
- Facts and magic variables
- host\_vars and group\_vars
- Registering results

#### 2.3 Ansible Vault

- Encrypted files and strings
- Separating secrets from code
- Vault password files

**LAB** Create users and secrets with Vault · 45 min

### Day 3 Task Control, Templates and Files

8 hours

#### 3.1 Task control

- Loops
- Handlers
- Tags
- Conditionals
- Blocks and error handling

**LAB** Handle failures with blocks and handlers · 45 min

### 3.2 Templates and files

- Jinja2 templates
- Managing file content
- Filters
- Generating reports from facts

**LAB** Generate per-host configuration with templates · 45 min

### 3.3 Inventory patterns

- Host patterns
- Parallelism and serial execution
- Dynamic inventory overview

## Day 4 Roles, Collections and Automating Administration

8 hours

### 4.1 Roles and collections

- Writing roles
- Ansible Content Collections
- Automation content navigator
- RHEL system roles
- requirements files

**LAB** Refactor playbooks into roles and use a system role · 50 min

### 4.2 Automating RHCSA tasks

- Packages and repositories
- Users, sudo and SSH keys
- cron jobs
- Storage: partitions, LVM and file systems
- Services, firewall and SELinux

**LAB** Automate a full server baseline · 75 min

## Day 5 Exam Readiness

8 hours

### 5.1 Practice exam

- Exam rules and environment
- Verification habits
- Reading tasks carefully

**LAB** Full-length timed practice exam · 210 min

### 5.2 Debrief and rework

- Common mistakes
- Focused rework of weak areas
- Speed techniques

## Skills and tools

### Skills you will build

Ansible

Playbooks

Ansible Vault

Jinja2

Roles

Content collections

RHEL system roles

Automation content navigator

Linux administration

Infrastructure automation

### Tools used in class

Ansible Core

ansible-navigator

Ansible Vault

Red Hat Enterprise Linux

vim

Git

## Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam Red Hat Certified Engineer (RHCE) exam

Exam code EX294

|               |                                                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------------------|
| Format        | Performance-based / lab                                                                                                   |
| Official page | <a href="https://www.redhat.com/en/services/certification/rhce">https://www.redhat.com/en/services/certification/rhce</a> |

### Exam skill areas covered

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

## Frequently asked questions

### How is this different from the Ansible (RH294) course?

Both are aligned to EX294. This five-day course adds RHCSA revision and a full timed practice exam with rework time.

### Do I need RHCSA?

Yes. Red Hat requires an RHCSA certification to be awarded RHCE.

### Is the exam hands-on?

Yes. EX294 is performance-based: you write automation that is checked against the required outcome.

### Is this an official Red Hat course?

No. It is an independent Ace Skills course aligned to the EX294 objectives.

## Book a batch or talk to an advisor

Course page: [aceskillsconsulting.com/course/ex294-rhce-red-hat-certified-engineer](https://aceskillsconsulting.com/course/ex294-rhce-red-hat-certified-engineer) · Email: [info@aceskillsconsulting.com](mailto:info@aceskillsconsulting.com)

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