

# RED HAT PERFORMANCE TUNING: LINUX IN PHYSICAL, VIRTUAL, AND CLOUD (RH442)

Course Code: 1295

In this course, you will learn about system architecture with an emphasis on understanding the implications on system performance, methods for testing the effects of performance adjustments, open source benchmarking utilities, methods for analyzing system and networking performance, and tuning configurations for specific application loads.

This course can help you prepare for the Red Hat Certificate of Expertise in Performance Tuning exam (EX442). This version of the course does not include the exam.

## **Red Hat Learning Subscription COURSE – Included with Your Purchase**

Starting January 1, 2026, Red Hat introduces RHLS-Course—a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake

Onsite Classroom-based sessions and closed course options remain unchanged.

## What You'll Learn

- Tuning for use-case scenarios (for example, HPC, large memory, database, and file server)
- Tuning for power consumption
- Tuning virtual machines (host and guest)
- Tuning memory and caches
- Tuning CPU and memory utilization using cgroups
- Gathering performance metrics and other data for tuning purposes

## Who Needs to Attend

Experienced Linux system administrators responsible for maximizing resource utilization through performance tuning

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CLASSROOM LIVE

\$6,110 CAD

4 Day

## Classroom Live Outline

1. Introduction to performance tuning
  - Understand the basic principles of performance tuning and analysis
2. Collecting, graphing, and interpreting data
  - Gain proficiency in using basic analysis tools and in evaluating data
3. General tuning
  - Learn basic tuning theory and mechanisms used to tune the system
4. Hardware profiling
  - Understand and analyze hardware
5. Software profiling
  - Analyze CPU and memory performance of applications
6. Mail server tuning
  - Learn about basic storage tuning using an email server as an example
7. Large memory workload tuning
  - Understand memory management and tuning
8. HPC workload tuning
  - Understand tuning for CPU-bound applications
9. File server tuning
  - Understand storage and network tuning in the context of a file server application
10. Database server tuning
  - Tune memory and network performance using a database application as an example
11. Power usage tuning

- Tune systems with power consumption in mind

## 12. Virtualization tuning

- Tune host and guest for efficient virtualization

**Note:** Course outline is subject to change with technology advances and as the nature of the underlying job evolves

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VIRTUAL CLASSROOM LIVE

\$6,110 CAD

1 Session

## Virtual Classroom Live Outline

### 1. Introduction to performance tuning

- Understand the basic principles of performance tuning and analysis

### 2. Collecting, graphing, and interpreting data

- Gain proficiency in using basic analysis tools and in evaluating data

### 3. General tuning

- Learn basic tuning theory and mechanisms used to tune the system

### 4. Hardware profiling

- Understand and analyze hardware

### 5. Software profiling

- Analyze CPU and memory performance of applications

### 6. Mail server tuning

- Learn about basic storage tuning using an email server as an example

### 7. Large memory workload tuning

- Understand memory management and tuning

### 8. HPC workload tuning

- Understand tuning for CPU-bound applications

### 9. File server tuning

- Understand storage and network tuning in the context of a file server application

### 10. Database server tuning

- Tune memory and network performance using a database application as an example

### 11. Power usage tuning

- Tune systems with power consumption in mind

## 12. Virtualization tuning

- Tune host and guest for efficient virtualization

**Note:** Course outline is subject to change with technology advances and as the nature of the underlying job evolves

Aug 31 - Sep 3, 2026 | 10:30 AM - 6:30 PM EDT

Nov 30 - Dec 3, 2026 | 10:30 AM - 6:30 PM EST

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ON-DEMAND

\$6,110 CAD



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PRIVATE GROUP TRAINING

4 Day

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