



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# Red Hat Enterprise Performance Tuning with Expertise Exam (RH442+EX442)

<b>CODE:</b>	<b>DURÉE:</b>	<b>PRIX H.T.:</b>
REH_443	40 Hours (5 Jours)	€3,605.00

## Description

Red Hat® Enterprise Performance Tuning teaches senior Linux® system administrators about performance tuning for [Red Hat Enterprise Linux](#).

## Objectifs

This course discusses 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.
  - Tuning configurations for specific application loads.
- This course can also help you prepare for the [Red Hat Certificate of Expertise in Performance Tuning exam \(EX442\)](#). This version of the course includes the exam.

## Course content summary

- Tuning for use-case scenarios (for example, HPC, large memory, database, and file server)
- Applying tuning profiles with tuned
- Tuning virtual machines (primarily guest, but host is discussed)
- Tuning memory and caches
- Tuning CPU and memory utilization using cgroups (integrated in systemd)
- Gathering performance metrics and other data for tuning purposes

## Audience

Senior Linux system administrators responsible for maximizing resource utilization through performance tuning.

## Training Development

Introduction to performance tuning

Understand the basic principles of performance tuning and analysis.

Collecting, graphing, and interpreting data

Gain proficiency in using basic analysis tools and evaluating data.

General tuning

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

Limiting resource usage

Hardware profiling

Understand and analyze hardware.

Software profiling

Analyze CPU and memory performance of applications.

Small file tuning

Tune a server for a workload involving frequent reads and writes of small files.

Large memory workload tuning

Understand memory management and tuning.

Tuning for a CPU-intensive workload

Understand tuning for CPU-bound applications.

File server tuning

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

Database server tuning

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

Power usage tuning

Tune systems with power consumption in mind.

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.

## Prérequis

- Red Hat Certified Engineer (RHCE®) certification or equivalent experience.
- Candidates who have not earned their RHCE, can confirm they have the correct skills by passing our online skills assessment.

## Options

Red Hat Certificate of Expertise in Performance Tuning exam (EX442)

Hands-on, performance-based, 4-hour exam.

## This course prepares you for these credentials:

Red Hat Certified Architect — RHCA®

RHCA certification incorporates the skills and knowledge of RHCDS plus advanced networking services security, system monitoring, and performance tuning.

## Dates de session

Sur demande. [Merci de nous contacter](#)

## Informations

### Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)