

## **RH442 Syllabus**

Performance tuning and capacity planning for Red Hat Enterprise Linux

### **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 in evaluating data.

### **General tuning**

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

### **Hardware profiling**

Understand and analyze hardware.

### **Software profiling**

Analyze CPU and memory performance of applications.

### **Mail server tuning**

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

### **Large memory workload tuning**

Understand memory management and tuning.

### **HPC workload tuning**

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.