

# Course : OpenSearch, indexing, searching and visualizing data

*Practical course - 2d - 14h00 - Ref. OPR*

*Price : 1680 CHF E.T.*

NEW

Avec des facilités d'interrogation et des fonctions de distribution en cluster autorisant une excellente montée en charge, OpenSearch tire le meilleur de la librairie Lucene. Sa grande tolérance aux pannes, sa capacité à traiter de gros volumes de données et ses fonctionnalités d'analyse confère à OpenSearch autant d'arguments d'adoption au sein de nombreux SI.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the key principles of OpenSearch installation and configuration
- ✓ Evaluate the possibilities offered by OpenSearch
- ✓ Index, search and visualize data and documents with OpenSearch
- ✓ Visualize data with OpenSearch Dashboard

## Intended audience

CTOs, technical project managers, application managers, operations managers.

## Prerequisites

Basic knowledge of development and administration of Windows or Linux/Unix operating systems.

## Course schedule

### 1 OpenSearch

- Comparison with Elasticsearch.
- What is OpenSearch Dashboard?
- Use cases.
- Architectural principles and key concepts: nodes, indexes, shards and replication.

### Hands-on work

Tool installation and configuration.

## PARTICIPANTS

CTOs, technical project managers, application managers, operations managers.

## PREREQUISITES

Basic knowledge of development and administration of Windows or Linux/Unix operating systems.

## TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

## ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

## 2 How OpenSearch works

- JSON format and HTTP REST API.
- Simple and compound document searches.
- Mapping and data types.
- Document and data analysis.
- Scoring and boost management.
- Aggregations.

### Hands-on work

Storing data in OpenSearch. First simple search queries.

## 3 Advanced features

- Choosing and/or defining your own analyzer.
- Filtering and sorting results.
- Suggestion and highlighting.
- Geographic relevance of queries (Geopoint).
- Percolation (Percolate Query).
- Ingestion and pipelines.

### Hands-on work

Handling and modifying data indexing with OpenSearch. Query, filter and sort results.

## 4 Using OpenSearch Dashboard

- Presentation of the OpenSearch Dashboard GUI.
- Working context: index-pattern.
- Time filter.
- Data mining.
- Metrics creation.
- Graphics creation.

### Hands-on work

Advanced data search with OpenSearch. Graphing.

## 5 Advanced visualization with OpenSearch Dashboard

- The different types of aggregation.
- The different visualizations.
- Graphics configuration.
- Setting up a map using Geopoint.
- Create and share a dashboard.

### Hands-on work

Create and share a dashboard.

## TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

## Dates and locations

### REMOTE CLASS

2026 : 16 Mar., 15 June, 7 Sep., 7 Dec.