

Core OpenSearch

Paris (France)

16 - 20 November 2026

UK Training

PARTNER



Core OpenSearch

Code: IT32 From: 16 - 20 November 2026 City: Paris (France) Fees: 5900 Pound

Introduction

This intensive training program provides a complete hands-on learning experience, equipping participants with the skills to install, configure, manage, and optimize the OpenSearch platform for search, analytics, and real-time performance monitoring.

The program covers environment setup, smooth migration from Elasticsearch to OpenSearch, advanced data indexing and management, executing complex queries, designing ingestion pipelines using log collection and processing tools, installing and configuring plugins, building customized dashboards, and integrating OpenSearch with various monitoring and visualization systems.

Participants will gain a solid understanding of OpenSearch architecture, learn to leverage its built-in performance tracking and analytics capabilities, and integrate it with advanced visualization platforms for faster and more accurate decision-making.

Course Objectives

By the end of this course, participants will be able to:

- Install and configure OpenSearch clusters in both on-premise and cloud environments.
- Perform a seamless migration from Elasticsearch to OpenSearch without data loss.
- Index, update, and manage datasets efficiently.
- Create ingestion pipelines using tools such as Beats, Logstash, and APIs.
- Execute advanced queries and aggregations.
- Install and configure plugins to extend system capabilities.
- Build interactive dashboards for centralized data analytics.
- Monitor performance and implement logging best practices.
- Integrate OpenSearch with visualization platforms such as Grafana for professional data display.

Course Outlines

Day 1: OpenSearch Fundamentals & Environment Setup

- Introduction to OpenSearch and its architecture.
- Key differences between OpenSearch and Elasticsearch.
- Setting up a development environment locally and in the cloud.
- Installing and configuring the system.
- Cluster fundamentals: nodes, shards, and replicas.
- Hands-on lab: Deploying single-node and multi-node clusters.

Day 2: Data Indexing, Streams & Queries

- Understanding index and document structures.
- Creating, updating, and deleting indices.



- Working with data streams.
- Query basics: match, term, and range queries.
- Aggregations and result sorting.
- Hands-on lab: Importing and querying structured and unstructured data.

Day 3: Cross-Cluster Operations & Data Ingestion Pipelines

- Cross-cluster search and replication.
- Introduction to data ingestion and processing tools.
- Configuring Beats for log collection.
- Building data pipelines with Logstash.
- Hands-on lab: Ingesting data from multiple sources into OpenSearch.

Day 4: Dashboards, Plugins & APIs

- Introduction to OpenSearch Dashboards.
- Creating and customizing data visualizations.
- Understanding and installing plugins.
- Using APIs to automate tasks.
- Hands-on lab: Creating an operational dashboard with multiple visualizations.

Day 5: Monitoring, Logging & Visualization Integration

- Performance monitoring in OpenSearch.
- Built-in features for tracking performance.
- Best Practices for Logging and Data Analysis.
- Integrating OpenSearch with Grafana for advanced visualization.
- Capstone project: Deploying a complete OpenSearch environment with ingestion pipelines, dashboards, and monitoring.
- Final Q&A and course wrap-up.

Why Attend this Course: Wins & Losses!

- Master installing, configuring, and operating OpenSearch in different environments.
- Smoothly transition from Elasticsearch without downtime or data loss.
- Design efficient and fully integrated data ingestion pipelines.
- Create interactive dashboards to visualize analytics.
- Enhance search and analytics performance through intelligent monitoring.
- Develop in-demand skills in data management and analytics.
- Learn best practices for managing distributed data systems.
- Gain practical expertise to build professional-grade search and analytics solutions.

Conclusion

The Advanced OpenSearch course delivers a powerful combination of theoretical knowledge and practical expertise in managing search and analytics systems.

From cluster setup and data ingestion pipelines to dashboard creation and monitoring integration with visualization platforms, you will leave this course fully prepared to build robust, scalable, and modern data solutions that meet

PARTNER





today's business intelligence demands.

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

UK Training
PARTNER



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



المؤسسة العامة للتأمينات الاجتماعية
General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



هيئة تنظيم الكهرباء - عمان
Authority for
Electricity Regulation, Oman

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Sustainability, ESG & Corporate Responsibility
Advanced Courses
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training

