



## Operations & Quality

# Using Big data and analytics in Operations

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- Location: London
  - Date: From 29/12/2025 To 2/1/2026
  - Investment: \$5950 (Excluding VAT)



**LONDON ROYAL**  
ACADEMY


[WWW.LONDONRA.COM](http://WWW.LONDONRA.COM)



## Course Introduction

This 5-day intensive course equips participants with the knowledge and skills to leverage the power of big data and analytics to optimize operational performance across various industries. Participants will learn how to collect, analyze, and interpret large datasets to identify trends, predict outcomes, and make data-driven decisions that improve efficiency, reduce costs, and enhance customer satisfaction.

## Training Method

- Pre-assessment
  - Live group instruction
  - Use of real-world examples, case studies and exercises
  - Interactive participation and discussion
  - Power point presentation, LCD and flip chart
  - Group activities and tests
  - Each participant receives a binder containing a copy of the presentation
  - slides and handouts
  - Post-assessment
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## Course Objectives

Upon successful completion of this course, participants will be able to:

- Understand the fundamentals of big data and its applications in operations management.
- Collect, clean, and prepare data for analysis using various tools and techniques.
- Apply data mining and machine learning algorithms to extract valuable insights from operational data.
- Develop and implement data-driven strategies for optimizing operational processes.
- Utilize predictive analytics for forecasting, demand planning, and risk mitigation.
- Build and deploy operational dashboards and reports to track key performance indicators (KPIs).
- Communicate data-driven insights effectively to stakeholders.
- Develop a data-driven culture within their organizations

## Who Should Attend?

This course is designed for a wide range of professionals, including:

- Operations Managers
  - Supply Chain Managers
  - Logistics Managers
  - Production Managers
  - Data Analysts
  - Business Analysts
  - IT Professionals
  - Anyone involved in operational decision-making
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# Course Outline


## Day 1: Foundations of Big Data and Analytics

- Introduction to Big Data: Characteristics, Sources, and Challenges
- Data Collection and Integration Techniques
- Data Cleaning and Preparation: Handling Missing Data, Outliers, and Inaccuracies
- Introduction to Data Visualization and Storytelling

## Day 2: Data Mining and Machine Learning Techniques

- Supervised Learning: Regression, Classification
- Unsupervised Learning: Clustering, Dimensionality Reduction  
[github.com](https://github.com)
- Predictive Modeling for Operations: Demand Forecasting, Predictive Maintenance
- Case Studies: Applying Data Mining in Operations

## Day 3: Leading Change and Fostering Agility


- Supply Chain Optimization: Inventory Management, Logistics, and Transportation
  - Production Planning and Scheduling
  - Quality Control and Process Improvement
  - Customer Relationship Management (CRM) Analytics
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# Course Outline

## Day 4: Building Data-Driven Operations

- Developing and Implementing Operational Dashboards and Reports
- Data-Driven Decision Making and Action Planning
- Building a Data-Driven Culture within the Organization
- Ethical Considerations and Data Privacy in Operations

## Day 5: Advanced Topics and Future Trends

- Artificial Intelligence (AI) and Machine Learning in Operations
  - Internet of Things (IoT) and Operational Data
  - Cloud Computing and Big Data Analytics
  - The Future of Operations in the Age of Data
  - Case Studies and Real-World Applications
  - Q&A and Wrap-up Session
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# Registration & Payment

Complete & Mail to London Royal Academy or email  
registration@londonra.com



## Registration Form

- Full Name (Mr / Ms / Dr / Eng) .....
- Position .....
- Telephone / Mobile .....
- Personal E-Mail .....
- Official E-Mail .....
- Company Name .....
- Address .....
- City / Country .....

## Payment Options

- ☐ Please invoice me
- ☐ Please invoice my company





# Terms & Conditions

Complete & Mail to London Royal Academy or email

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## Cancellation and Refund Policy

Delegates have 14 days from the date of booking to cancel and receive a full refund or transfer to another date free of charge. If less than 14 days' notice is given, then we will be unable to refund or cancel the booking unless on medical grounds. For more details about the Cancellation and Refund policy, please visit

[www.londonra.com/terms-and-conditions/](http://www.londonra.com/terms-and-conditions/)

## Registration & Payment

Please complete the registration form on the course page & return it to us indicating your preferred mode of payment. For further information, please get in touch with us

## Course Materials


The course material, prepared by the LRA, will be digital and delivered to candidates by email

## Certificates

Accredited Certificate of Completion will be issued to those who attend & successfully complete the programme.

## Travel and Transport

We are committed to picking up and dropping off the participants from the airport to the hotel and back.





# VENUES

 LONDON

 BARCELONA

 KUALA LUMPER

 AMSTERDAM

 ISTANBUL

 SINGAPORE

 PARIS

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# OUR PARTNERS





# THANK YOU

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