

DATA ANALYSIS AND DATA VISUALIZATION FOR SUPPLY CHAIN

“Transforming Supply Chain Performance Through Insights and Intelligence”

Schedule

Date	Venue	Fees (Face-to-Face)
07 - 11 Dec 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

In today’s volatile supply chain environment, data-driven decision-making is no longer optional—it’s essential. From demand forecasting to logistics optimization, organizations need real-time insights to boost efficiency, reduce costs, and manage disruptions. Data analysis and visualization empower supply chain professionals to turn complex datasets into actionable intelligence.

This comprehensive 5-day training course provides participants with the analytical and visualization skills needed to optimize supply chain operations. Through hands-on exercises and real-world applications, attendees will learn to analyze trends, identify bottlenecks, and present data effectively for improved decision-making.

Objectives

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

- Understand key data types and sources across the supply chain
- Perform statistical and operational analysis to identify inefficiencies
- Use Excel, Power BI, and other tools for supply chain analytics
- Visualize trends, KPIs, and insights for supply chain stakeholders
- Apply data storytelling to influence strategic decisions

Why Attend

- To improve visibility and responsiveness across the supply chain
- To enhance forecasting, inventory, and transportation performance
- To identify risks, inefficiencies, and improvement opportunities
- To drive collaboration through clear and compelling data visuals
- To align data analysis with real business outcomes

Target Audience

This program is designed for:

- Supply chain analysts and operations professionals
- Procurement, logistics, and inventory managers
- Business analysts supporting supply chain functions
- IT and data professionals working with supply chain systems
- Anyone involved in supply chain performance improvement or decision support

Individual Benefits

Key competencies that will be developed include:

- Data cleaning, transformation, and dashboard creation
- Forecasting and demand planning using historical data
- Visualization of KPIs like OTIF, lead time, and inventory turnover
- Problem-solving using data models and root cause analysis
- Communication of supply chain findings to non-technical stakeholders

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved supply chain agility and cost control
- Smarter, evidence-based decisions across departments
- Faster identification and resolution of performance gaps
- Greater collaboration through data transparency and storytelling
- Enhanced adoption of supply chain analytics and reporting tools

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Supply chain analytics frameworks and data value chains
- Case Studies - Data-driven decisions in procurement, logistics, and inventory
- Workshops - KPI dashboard creation, Excel modeling, and visualization projects
- Peer Exchange - Experience sharing on supply chain performance measurement
- Tools - Power BI dashboards, Excel templates, and data storytelling frameworks

Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of Data and Supply Chain Analytics

- Module 1: Introduction to Supply Chain Data Types (07:30 – 09:30) • Structured vs. unstructured data, transactional vs. master data
 - Key data points across procurement, production, and delivery
- Module 2: Data Quality and Cleaning Techniques (09:45 – 11:15) • Missing values, duplicates, and standardization practices
- Module 3: Workshop – Building a Clean Supply Chain Dataset (11:30 – 01:00) • Excel-based data cleanup and structuring
- Module 4: KPIs and Metrics for Supply Chain Performance (02:00 – 03:30) • OTIF, fill rate, lead time, stockout rate, and more

Day 2: Exploratory Analysis and Visualization Basics

- Module 5: Descriptive Analytics for the Supply Chain (07:30 – 09:30) • Trend, ratio, and comparative analysis techniques
- Module 6: Introduction to Data Visualization Principles (09:45 – 11:15) • Chart selection, dashboard layout, and storytelling flow
- Module 7: Workshop – Creating Basic Dashboards in Excel (11:30 – 01:00) • Line charts, bar graphs, slicers, and pivot tables
- Module 8: Root Cause Analysis with Visual Tools (02:00 – 03:30) • Pareto charts, heat maps, and cause-effect diagrams

Day 3: Advanced Excel and Power BI for Supply Chain

- Module 9: Advanced Excel Functions for Analysts (07:30 – 09:30) • VLOOKUP, INDEX-MATCH, conditional formatting, and macros
- Module 10: Power BI Essentials (09:45 – 11:15) • Data modeling, relationships, and measures using DAX
- Module 11: Workshop – Supply Chain Dashboard in Power BI (11:30 – 01:00) • Designing a dynamic performance dashboard
- Module 12: Inventory and Logistics Visualization (02:00 – 03:30) • Mapping inventory flows, lead time curves, and network graphs

Day 4: Forecasting and Predictive Analysis

- Module 13: Demand Forecasting Techniques (07:30 – 09:30) • Moving averages, exponential smoothing, and regression
- Module 14: Scenario Analysis for Planning (09:45 – 11:15) • What-if models, cost simulations, and sensitivity analysis
- Module 15: Workshop – Forecasting Using Historical Sales Data (11:30 – 01:00) • Developing a forecast model in Excel or Power BI
- Module 16: Communicating Forecasts to Decision Makers (02:00 – 03:30) • Visual formats for planning, budgeting, and procurement

Day 5: Integrated Insights and Final Presentations

- Module 17: From Data to Decision – The Analytics Value Chain (07:30 – 09:30) • Aligning data, analysis, visualization, and action
- Module 18: Data Storytelling for Supply Chain Leaders (09:45 – 11:15) • Structuring insights, visuals, and recommendations
- Module 19: Workshop – Final Dashboard and Insight Presentation (11:30 – 01:00) • Presenting findings and improvement suggestions
- Module 20: Final Review, Certification, and Action Planning (02:00 – 03:30) • Feedback, peer reviews, and practical implementation roadmap

Certification

Participants will receive a Certificate of Completion in Data Analysis and Data Visualization for Supply Chain, validating their ability to leverage data for operational excellence, visibility, and decision-making across supply chain functions.

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