

## SUPPLY CHAIN ANALYTICS FOR DATA-DRIVEN DECISION MAKING

*"Harnessing Data to Optimize Supply Chain Performance, Mitigate Risk, and Drive Strategic Decisions"*

### Schedule

Date	Venue	Fees (Face-to-Face)
07 - 11 Dec 2026	Dubai - UAE	USD 3495 per delegate

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

### Introduction

In an era defined by volatility, uncertainty, and digital transformation, supply chain professionals must move beyond intuition and adopt data-driven strategies to gain competitive advantage. Supply Chain Analytics empowers decision-makers with actionable insights drawn from operational, financial, and customer data to improve forecasting, inventory control, sourcing, transportation, and risk management.

This hands-on, intensive training course equips participants with the skills to apply descriptive, predictive, and prescriptive analytics in a supply chain context. From demand planning to supplier evaluation, attendees will learn to leverage tools such as Excel, Power BI, and supply chain KPIs to enhance visibility, efficiency, and resilience across the value chain.

### Objectives

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

- Understand the role of analytics across the end-to-end supply chain
- Apply descriptive, predictive, and prescriptive analytics for informed decision-making
- Use dashboards and data visualization tools to monitor supply chain performance
- Identify opportunities to reduce cost, improve service levels, and mitigate risks
- Translate analytics into actionable supply chain strategies and improvements

## Why Attend

- Gain in-demand skills in supply chain data analytics and visualization
- Transform operational data into insights for planning, sourcing, and logistics
- Develop analytical models for demand forecasting and inventory optimization
- Drive continuous improvement using real-time metrics and performance dashboards
- Enhance your strategic thinking and analytical problem-solving capabilities

## Target Audience

This program is designed for:

- Supply chain, logistics, and procurement professionals
- Operations and inventory managers
- Business analysts and data professionals in SCM
- Demand planners, sourcing specialists, and transportation coordinators
- Professionals looking to enhance decision-making using analytics

## Individual Benefits

Key competencies that will be developed include:

- Supply chain performance analysis using data visualization tools
- Demand forecasting and scenario-based decision-making
- Inventory and network optimization through data modeling
- Design of dashboards and KPIs for tracking supply chain health
- Interpretation of large data sets to influence strategic outcomes

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved demand planning and forecast accuracy
- Reduction in stockouts, overstock, and transportation costs
- Stronger supplier performance monitoring and risk mitigation
- Enhanced responsiveness and agility in supply chain operations
- Better alignment between operational goals and data-driven insights

## Instructional Methodology

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

- Strategy Briefings - Core supply chain analytics concepts and tools
- Case Studies - Industry examples of analytics-led improvements
- Workshops - Forecast modeling, KPI dashboards, and scenario analysis
- Peer Exchange - Group discussions on analytics applications
- Tools - Excel models, Power BI dashboards, and supply chain scorecards

## 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: Introduction to Supply Chain Analytics

- Module 1: The Role of Analytics in Modern Supply Chains (07:30 – 09:30) • Analytics maturity models and SCOR framework
- Module 2: Descriptive Analytics and Data Interpretation (09:45 – 11:15) • Understanding trends, averages, and variability
- Module 3: Workshop – KPI Dashboard Development (11:30 – 01:00) • Visualize performance with Power BI/Excel
- Module 4: Case Study – Supply Chain Visibility Transformation (02:00 – 03:30) • Example from FMCG or retail industry

### Day 2: Forecasting and Demand Analytics

- Module 5: Forecasting Models and Techniques (07:30 – 09:30) • Time series, moving average, exponential smoothing
- Module 6: Demand Segmentation and Variability Analysis (09:45 – 11:15) • ABC/XYZ analysis and service level planning
- Module 7: Workshop – Create a Demand Forecast (11:30 – 01:00) • Build a model using sample data sets
- Module 8: Peer Exchange – Forecasting Challenges (02:00 – 03:30) • Discussion on data quality and forecast bias

### Day 3: Inventory and Procurement Analytics

- Module 9: Inventory Classification and Optimization (07:30 – 09:30) • EOQ, reorder point, safety stock calculation
- Module 10: Supplier Analytics and Scorecards (09:45 – 11:15) • Performance indicators and risk profiling
- Module 11: Workshop – Inventory Health Assessment (11:30 – 01:00) • Analyze stock levels, turns, and aging
- Module 12: Case Study – Strategic Sourcing Decisions (02:00 – 03:30) • Total cost of ownership and supplier rankings

### Day 4: Logistics, Network & Risk Analytics

- Module 13: Transportation and Network Efficiency (07:30 – 09:30) • Route optimization, delivery performance metrics
- Module 14: Supply Chain Risk Analytics (09:45 – 11:15) • Scenario planning, sensitivity and disruption mapping
- Module 15: Workshop – Logistics Performance Dashboard (11:30 – 01:00) • Create a live tracker for cost and delivery
- Module 16: Peer Exchange – Managing Disruption with Data (02:00 – 03:30) • COVID-19, Suez Canal, geopolitical scenarios

### Day 5: Strategy, Integration & Final Project

- Module 17: Linking Analytics to Supply Chain Strategy (07:30 – 09:30) • Cost vs service trade-offs and executive reporting
- Module 18: Integrated Planning with Data (09:45 – 11:15) • IBP, S&OP, and dashboard-driven reviews
- Module 19: Final Project – Build a Supply Chain Analytics Plan (11:30 – 01:00) • Present insights and strategy to a mock board
- Module 20: Wrap-Up, Feedback, and Certification (02:00 – 03:30) • Course review, key takeaways, and certificate awarding

## Certification

Participants will receive a Certificate of Completion in Supply Chain Analytics for Data-Driven Decision Making, validating their ability to leverage analytics tools and techniques to enhance supply chain visibility, efficiency, and resilience.

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