Certificate Course in

Supply Chain Analytics for Business Performance

Transform your Supply Chain Data into a Competitive Advantage!

Organized by

St. Joseph's Institute of Management (SJIM)

In association with

Indian Institute of Materials Management, Bangalore

Duration: 8 weeks | **Time:** 6 hours/week | **Format:** Live-Online | **Date:** Dec 1, 2026 onwards

Classes: Tuesday & Thursday (7:00 PM – 8:30 PM) | Saturday (9:30 AM – 12:30 PM)

Why Supply Chain Analytics?

In today's volatile and interconnected business environment, supply chains generate vast amounts of data across procurement, production, inventory, logistics, and customer fulfillment. Organizations increasingly seek professionals who can transform this data into actionable insights that improve service levels, reduce costs, and enhance resilience.
By becoming more analytical, supply chain managers can make better decisions, improve operational performance, and create significant business value.

Course Objective

Develop professionals who can:

- Measure and improve supply chain performance using analytics
- Apply analytical methods to procurement, inventory, logistics, and demand planning
- Build dashboards and decision-support systems
- Interpret data and communicate recommendations effectively
- Use analytics to drive supply chain transformation initiatives

What You Will Learn

Supply Chain Analytics Applications

- Analyze supply chain performance using data-driven techniques to identify bottlenecks, measure efficiency, and benchmark operational effectiveness.
- Predict demand and optimize inventory decisions applying forecasting models to manage variability, reduce stockouts, and balance service levels with working capital goals.
- Improve procurement and supplier performance to evaluate supplier performance, cost drivers, and risk exposure to make smarter sourcing decisions.
- Enhance logistics and distribution efficiency by leverage routing, network, and transportation analytics to improve speed, reduce cost, and elevate delivery reliability.
- Evaluate trade-offs between cost, service, and risk by quantifying decision impacts to design an efficient and resilient supply chain.
- Communicate analytical insights to drive operational and strategic decisions through clear, actionable recommendations.

Tools & Methods

- Excel and Spreadsheet Modelling
- Data Management using SQL
- Dashboards and KPI creation using Power BI
- Descriptive and Inferential Statistics
- Descriptive, Predictive, and Prescriptive Analytics
- Case-Based Learning
- Hands-on Assignments and Peer Feedback

Who Should Attend?

- Supply Chain Managers and Professionals
- Procurement and Sourcing Managers
- Demand Planning and Inventory Professionals
- Logistics and Distribution Managers
- Operations Managers
- ERP and Business Analytics Professionals
- Professionals seeking to transition into analytics-driven supply chain roles

Certification

Upon successful completion, you will receive a Joint Certificate from Indian Institute of Materials Management and St. Joseph's Institute of Management in Supply Chain Analytics, recognized across industries. Participants will receive a Certificate of Completion upon meeting all assessment requirements.

Course Modules & Learning Flow

MODULE 1

Foundation and Tools of Analytics

- SCA as a driver of business performance
- Data Management using SQL

MODULE 2

Storytelling with Supply Chain Data

- From metrics to business insights
- Designing dashboards/ executive reports
- Visualizing supply chain performance
- Communicating to stakeholders
- Dashboards using Power BI

MODULE 3

Demand Forecasting Analytics

- Forecasting concepts
- Forecasting methods
- Accuracy measures and signals
- Managing uncertainty in demand planning

MODULE 4

Inventory Analytics

- Inventory performance measures
- Safety stock / service level trade-offs
- Sampling and inference
- Inventory optimization principles

MODULE 5

Procurement and Supplier Analytics

- Procurement performance metrics
- Supplier evaluation and scorecards
- Spend and sourcing analytics
- Supplier risk assessment

MODULE 6

Logistics and Distribution Analytics

- Transportation and distribution KPIs
- Network optimization concepts
- Service level and cost trade-offs

MODULE 7

AI-Powered Supply Chain Analytics

- Leveraging Generative AI
- Prompt engineering for SCA
- AI-assisted dashboard interpretation
- AI for risk assessment/ decision support
- Emerging AI trends/ autonomous supply chains

MODULE 8

Capstone Project and Presentations

- Group project of a real-life supply chain problem
- Application of analytics to the problem
- Presentation of findings
- Faculty and peer feedback

Resource Persons

Dr. Ashwin

Dr. Ashwin is the Head of Data Science at Darby Telematics a product development company serving the telematics and automotive industries. Over the past decade, he has led the development of innovative data-driven products and services, leveraging advanced statistical modelling and machine learning techniques applied to high-frequency sensor, vehicle and location data. Dr. Ashwin holds a Ph.D. from the University of Hawai'i at Mānoa.

Arun Ravi

Arun Ravi is an AI, Data Engineering, and Analytics leader with over 10 years of industry experience, currently working at Amazon, where he architects large-scale AI solutions, data platforms, and intelligent analytics systems used across global business operations. His expertise spans Generative AI, Agentic AI, Machine Learning, Cloud Data Engineering and Business Intelligence. He has a Bachelor in Electrical Engineering from VTU.

Jayaraman B

Jayaraman B comes with over 35 years of experience with Bosch, L&T and ACC Babcock in the supply chain functions of purchasing and lean Logistics. His last role was as Senior General Manger at Bosch Limited, Bangalore. He has a B.E(Mechanical) NIT, Nagpur, Graduate Diploma in Management from AIMA and a Diploma in Business Administration, from XIME, Bangalore. He is currently an Independent Consultant in SCM & Lean Logistics and a Bosch Certified Trainer for Lean Production Systems.

Rajendra Desai

Rajendra Desai is a certified consultant with M/s Frontline Systems Inc, USA a leader in providing Predictive and Prescriptive Analytics solutions for Industry. He has successfully executed consulting projects for diverse Industries to help them improve their operations through analytics solutions. He last role was Director (Training & Consulting) at SJIM and Senior Consultant at ISME, Bangalore.

About SJIM

St. Joseph's Institute of Management (SJIM) was established in 1968 and is the oldest business school in Karnataka. It is run by the Jesuits, who also run other reputed business schools such as XLRI Jamshedpur, ESADE Spain, and Boston College USA. SJIM has a state-of-the-art campus in the heart of Bangalore, just off M.G. Road. SJIM is regularly ranked among the nation's top business schools, has been accredited nationally by the NBA, and is in the process of achieving international accreditation by the AACSB.

About IIMM

Indian Institute of Materials Management is the premier professional Institute of Materials Management in India. Their mission is to "promote professional excellence in Materials and Supply Chain Management towards national prosperity through sustainable development" through its national network of 52 branches and 19 chapters spread over the length and breadth of the country. IIMM is dedicated to the professional activities including Executive Development Programmes, Seminars, Workshops, In-house Training Programmes and consultancy.

Contact Details

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