

# SUPPLY CHAIN ANALYTICS & OPTIMIZATION

Dubai - UAE

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\$5,800

**GENTEX**<sup>®</sup>  
TRAINING CENTER



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## Introduction

In the modern world of complex supply chains, data-driven decision-making has become a cornerstone of operational success. Supply Chain Analytics & Optimization focuses on leveraging data, advanced analytics, and innovative tools to enhance the efficiency and performance of supply chains. By mastering these techniques, businesses can reduce costs, improve service levels, and gain a competitive edge.

The Supply Chain Analytics & Optimization Course offered by Gentex Training Center is a five-day program designed to empower professionals with the skills needed to analyze supply chain data effectively and apply optimization techniques. This course provides practical insights into predictive analytics, machine learning, and scenario modeling, enabling participants to solve real-world supply chain challenges with confidence.

## Supply Chain Analytics & Optimization Course Objectives

- Understand the role of analytics in supply chain management.
- Use key performance indicators (KPIs) to assess supply chain efficiency.
- Learn data visualization techniques to communicate insights effectively.
- Master predictive analytics to anticipate future supply chain trends.
- Explore optimization models to balance cost, service, and risk.
- Utilize machine learning for demand forecasting and inventory planning.
- Conduct scenario analysis to prepare for supply chain disruptions.
- Implement data-driven decision-making processes across supply chain operations.
- Gain hands-on experience with analytics tools and software.
- Develop strategies to align analytics with organizational goals for continuous improvement.



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## Course Methodology

The course combines lectures, hands-on exercises, and case studies. Participants will work on real-world datasets and use industry-standard tools to apply analytics and optimization techniques.

## Who Should Take This Course

- Supply chain professionals seeking to improve data-driven decision-making.
- Business analysts aiming to specialize in supply chain analytics.
- Logistics managers focused on optimizing operational efficiency.
- Consultants and strategists working on supply chain projects.

## Supply Chain Analytics & Optimization Course Outlines

### Day 1: Foundations of Supply Chain Analytics

- Overview of supply chain management and analytics.
- Types of supply chain analytics: descriptive, predictive, and prescriptive.
- Introduction to data collection, cleaning, and processing.
- Key performance indicators (KPIs) for supply chain assessment.

### Day 2: Data Visualization and Communication

- Best practices for data visualization in supply chains.
- Using dashboards and reports to monitor supply chain performance.
- Hands-on exercises with visualization tools like Tableau or Power BI.
- Storytelling with data: transforming insights into action.



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## Day 3: Predictive Analytics in Supply Chain

- Understanding predictive models and their applications.
- Demand forecasting using statistical and machine learning techniques.
- Inventory management optimization through predictive insights.
- Case studies on real-world applications of predictive analytics.

## Day 4: Optimization Techniques for Supply Chain

- Introduction to linear and nonlinear optimization models.
- Balancing cost, service, and risk with optimization tools.
- Solving transportation and network design problems.
- Simulation techniques for scenario planning and risk management.

## Day 5: Advanced Tools and Strategies for Analytics

- Exploring advanced tools like Python, R, and specialized supply chain software.
- Integrating analytics into supply chain operations and strategy.
- Case study: creating an end-to-end supply chain optimization plan.
- Building a culture of continuous improvement using analytics.

## Conclusion

By successfully completing the Supply Chain Analytics & Optimization Course with Gentex Training Center, participants will gain in-depth knowledge and practical skills to analyze and optimize supply chain operations. This expertise will enable professionals to make informed decisions, improve supply chain performance, and drive business success in a competitive environment.

