Training Course on Supply Chain Optimization

Professional Development Training Course Outline

Category	Business	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today's dynamic and competitive global landscape, **Supply Chain Optimization** has emerged as a critical differentiator for organizations seeking enhanced efficiency, reduced costs, and improved customer satisfaction. This comprehensive training course delves into the core principles and advanced techniques of **streamlining supply chain operations**, empowering participants with the knowledge and skills to transform their organizational value chain. By mastering concepts such as **demand forecasting**, **inventory management**, **logistics optimization**, and **supplier relationship management**, organizations can unlock significant **organizational benefits**, including increased profitability, enhanced agility, and a stronger competitive edge. This course provides a structured framework for understanding and implementing best practices in **supply chain strategy**, enabling businesses to build resilient and responsive supply chains that drive sustainable growth.

This intensive program is designed to equip professionals with practical tools and methodologies for achieving **supply chain excellence**. Participants will gain insights into leveraging cutting-edge technologies and data-driven approaches to optimize every stage of the supply chain, from sourcing raw materials to delivering finished goods. The curriculum emphasizes the importance of **collaboration and communication** across the supply chain, fostering a holistic understanding of how interconnected processes impact overall performance. Through real-world case studies and interactive exercises, learners will develop the ability to identify bottlenecks, implement effective solutions, and continuously improve their organization's supply chain capabilities, ultimately contributing to enhanced **operational efficiency** and a more robust bottom line

Programme Curriculum

Training Course on Supply Chain Optimization

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Course Duration

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Course Objectives

1. **Mastering Demand Forecasting Techniques:** Learn advanced **demand planning** and **predictive analytics** for accurate inventory management.
2. **Implementing Lean Inventory Management:** Apply **just-in-time (JIT)** and **economic order quantity (EOQ)** models to minimize holding costs.
3. **Optimizing Warehouse Operations:** Improve **warehouse efficiency** through strategic layout design and **automation**.
4. **Streamlining Transportation and Logistics:** Utilize **route optimization software** and **freight management systems** for cost-effective delivery.
5. **Enhancing Supplier Relationship Management:** Build strong **supplier partnerships** and implement effective **vendor management** strategies.
6. **Leveraging Technology in Supply Chain:** Explore the application of **blockchain in supply chain**, **IoT for supply chain visibility**, and **AI in logistics**.
7. **Improving Supply Chain Visibility:** Implement systems for end-to-end **supply chain transparency** and real-time tracking.
8. **Mitigating Supply Chain Risks:** Develop strategies for **supply chain risk management** and building resilient supply chains.
9. **Adopting Sustainable Supply Chain Practices:** Integrate **environmental sustainability in logistics** and ethical sourcing into supply chain operations.
10. **Utilizing Data Analytics for Decision Making:** Apply **supply chain analytics** and **business intelligence** tools for informed decision-making.
11. **Implementing Agile Supply Chain Strategies:** Develop **flexible supply chain models** to adapt to market changes and disruptions.
12. **Improving Collaboration and Communication:** Foster effective **supply chain collaboration** among internal teams and external partners.
13. **Measuring and Improving Supply Chain Performance:** Utilize **key performance indicators (KPIs)** for **supply chain performance measurement** and continuous improvement.

Organizational Benefits:

- Reduced operational costs through optimized processes.
- Improved efficiency and productivity across the supply chain.
- Enhanced customer satisfaction through timely and reliable delivery.
- Increased agility and responsiveness to market changes.
- Better inventory management and reduced holding costs.
- Stronger supplier relationships and improved negotiation power.
- Enhanced visibility and control over the entire supply chain.
- Mitigation of potential risks and disruptions.
- Improved sustainability and ethical sourcing practices.
- Data-driven decision-making for continuous improvement.

Target Audience:

1. Supply Chain Managers
2. Logistics Professionals
3. Operations Managers
4. Procurement Specialists
5. Inventory Planners
6. Business Analysts
7. Project Managers
8. Individuals seeking career advancement in supply chain management

Course Outline

Module 1: Foundations of Supply Chain Management

- Understanding the scope and importance of supply chain management.
- Key components and flows within a supply chain.
- Different types of supply chains and their characteristics.
- The role of technology in modern supply chains.
- Introduction to supply chain optimization principles.

Module 2: Demand Forecasting and Planning

- Overview of different forecasting techniques (qualitative and quantitative).
- Utilizing statistical models for demand prediction.
- Collaborative Planning, Forecasting, and Replenishment (CPFR).
- Measuring forecast accuracy and managing forecast errors.
- Integrating demand forecasts with inventory planning.

Module 3: Inventory Management Strategies

- Understanding the costs associated with inventory.
- Applying different inventory control models (e.g., EOQ, safety stock).
- Implementing Just-in-Time (JIT) and Lean inventory principles.
- Inventory classification techniques (e.g., ABC analysis).
- The impact of lead time variability on inventory levels.

Module 4: Warehouse and Distribution Center Management

- Principles of warehouse layout and design for efficiency.
- Warehouse automation technologies and their applications.

- Inventory storage and retrieval systems.
- Order fulfillment processes and optimization.
- Managing warehouse labor and resources effectively.

Module 5: Transportation and Logistics Optimization

- Different modes of transportation and their characteristics.
- Route optimization and transportation planning software.
- Freight rate negotiation and carrier selection.
- International logistics and customs procedures.
- Strategies for reducing transportation costs and improving delivery times.

Module 6: Supplier Relationship Management (SRM)

- Identifying and segmenting key suppliers.
- Developing effective communication and collaboration strategies.
- Supplier performance evaluation and management.
- Negotiation techniques and contract management.
- Building strategic alliances and partnerships with suppliers.

Module 7: Supply Chain Technology and Digital Transformation

- Overview of Enterprise Resource Planning (ERP) systems.
- The role of Warehouse Management Systems (WMS).
- Transportation Management Systems (TMS).
- Leveraging Internet of Things (IoT) for supply chain visibility.
- Exploring the applications of Artificial Intelligence (AI) and Machine Learning (ML) in supply chain.

Module 8: Enhancing Supply Chain Visibility and Traceability

- Importance of end-to-end supply chain visibility.
- Implementing tracking and tracing technologies (e.g., RFID, GPS).
- Data collection and management for improved transparency.
- Utilizing dashboards and analytics for real-time insights.
- Building a connected and transparent supply chain ecosystem.

Module 9: Supply Chain Risk Management and Resilience

- Identifying potential risks and vulnerabilities in the supply chain.
- Developing risk mitigation and contingency plans.
- Implementing business continuity strategies.
- Assessing and managing disruptions (e.g., natural disasters, geopolitical events).
- Building a resilient and adaptable supply chain.

Module 10: Sustainable Supply Chain Management

- Understanding the environmental and social impacts of supply chains.
- Implementing green logistics and transportation practices.
- Ethical sourcing and supplier code of conduct.
- Circular economy principles and waste reduction.
- Measuring and reporting on sustainability performance.

Module 11: Supply Chain Analytics and Performance Measurement

- Identifying key performance indicators (KPIs) for supply chain performance.
- Collecting and analyzing supply chain data.
- Utilizing business intelligence tools for reporting and visualization.
- Identifying areas for improvement through data-driven insights.
- Implementing continuous improvement methodologies.

Module 12: Agile and Adaptive Supply Chains

- Understanding the need for agility in today's dynamic environment.
- Developing flexible and responsive supply chain models.
- Implementing postponement and customization strategies.
- Utilizing modularity and standardization.
- Building a supply chain that can quickly adapt to changing market demands.

Module 13: Collaboration and Communication in the Supply Chain

- The importance of effective communication across the supply chain.
- Building collaborative relationships with internal and external stakeholders.
- Utilizing communication platforms and tools.
- Overcoming communication barriers and fostering trust.
- Establishing clear roles and responsibilities for seamless collaboration.

Module 14: Implementing Supply Chain Optimization Initiatives

- Developing a strategic roadmap for supply chain optimization.
- Identifying and prioritizing optimization opportunities.
- Managing change and stakeholder buy-in.
- Utilizing project management methodologies for implementation.
- Measuring the impact and return on investment of optimization initiatives.

Module 15: The Future of Supply Chain Management

- Emerging trends and technologies in supply chain (e.g., robotics, drones).
- The impact of e-commerce and omnichannel strategies.
- The role of data and analytics in shaping future supply chains.
- Developing a future-ready supply chain workforce.
- Continuous learning and adaptation in the evolving supply chain landscape.

Training Methodology:

This course employs a blended learning approach incorporating:

- Interactive lectures and presentations.
- Case studies and real-world examples.
- Group discussions and collaborative exercises.
- Practical workshops and simulations.
- Access to online resources and tools.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org **or call** *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$12,000

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