Training Course on Advanced Logistics and Material Management

Professional Development Training Course Outline

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

Course Introduction

In today's dynamic and competitive global marketplace, efficient **logistics management** and strategic **material management** are critical for organizational success. This comprehensive training course on **Advanced Logistics & Material Management** is meticulously designed to equip professionals with the cutting-edge knowledge and practical skills necessary to optimize supply chain operations, reduce costs, and enhance overall organizational performance. Participants will delve into advanced concepts, industry best practices, and innovative technologies shaping the future of the supply chain. Mastering these disciplines will empower individuals and their organizations to achieve significant competitive advantages through streamlined processes, improved inventory control, and enhanced customer satisfaction. This course provides a deep dive into the intricacies of modern supply chain challenges and opportunities, focusing on creating resilient and agile operational frameworks.

This intensive program addresses the evolving demands of the industry, emphasizing the integration of **digital logistics** and sustainable practices. By exploring advanced forecasting techniques, warehouse automation, and transportation optimization strategies, participants will gain the expertise to drive operational excellence. Furthermore, the course highlights the importance of strategic sourcing, supplier relationship management, and quality control in ensuring a seamless flow of materials. Through interactive sessions, real-world case studies, and practical exercises, attendees will develop the ability to implement data-driven decision-making and lead transformative initiatives within their organizations. Investing in this training signifies a commitment to building a future-ready workforce capable of navigating the complexities of global supply chains and achieving tangible business results.

Programme Curriculum

Training Course on Advanced Logistics & Material Management

Introduction

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Course Objectives

Upon completion of this Advanced Logistics & Material Management training course, participants will be able to:

1. **Optimize Supply Chain Efficiency**: Implement advanced strategies to streamline the flow of goods, information, and finances across the supply chain.
2. **Master Inventory Control Techniques**: Apply sophisticated methods for demand forecasting, inventory planning, and warehouse management to minimize holding costs and avoid stockouts.
3. **Enhance Transportation Management**: Utilize modern technologies and strategies to optimize transportation routes, reduce shipping costs, and improve delivery times.
4. **Implement Strategic Sourcing**: Develop effective sourcing strategies, evaluate supplier performance, and build strong supplier relationships.
5. **Apply Warehouse Automation**: Understand and implement automated systems and technologies to improve warehouse efficiency and accuracy.
6. **Utilize Data Analytics in Logistics**: Leverage data analytics tools and techniques for informed decision-making in logistics and material management.
7. **Incorporate Sustainable Logistics Practices**: Integrate environmentally responsible practices into supply chain operations to reduce environmental impact and enhance corporate social responsibility.
8. **Manage Global Supply Chains**: Navigate the complexities of international logistics, including customs regulations, tariffs, and cross-border transportation.

9. **Mitigate Supply Chain Risks**: Identify potential disruptions in the supply chain and develop proactive strategies for risk mitigation and business continuity.
10. **Improve Demand Forecasting Accuracy**: Utilize advanced forecasting models and techniques to predict future demand and optimize inventory levels.
11. **Apply Lean Principles in Logistics**: Implement lean methodologies to eliminate waste and improve efficiency in logistics and material handling processes.
12. **Utilize Digital Logistics Technologies**: Understand and leverage emerging digital technologies such as IoT, blockchain, and AI in logistics and supply chain management.
13. **Enhance Supplier Collaboration**: Develop effective communication and collaboration strategies with suppliers to improve performance and build long-term partnerships.

Organizational Benefits

Organizations that invest in this Advanced Logistics & Material Management training can expect to realize several key benefits, including:

- **Reduced Operational Costs**: Through optimized processes, efficient inventory management, and streamlined transportation.
- **Improved Supply Chain Visibility**: Gaining a clearer understanding of the entire supply chain for better control and decision-making.
- **Enhanced Customer Satisfaction**: By ensuring timely deliveries, reducing lead times, and improving order accuracy.
- **Increased Efficiency and Productivity**: Through the implementation of best practices and modern technologies.
- **Stronger Supplier Relationships**: Leading to better negotiation terms, improved quality, and enhanced collaboration.
- **Better Inventory Management**: Minimizing waste, reducing carrying costs, and preventing stockouts.
- **Improved Risk Management**: By proactively identifying and mitigating potential disruptions in the supply chain.
- **Enhanced Competitive Advantage**: Through a more agile, efficient, and responsive supply chain.

Target Audience

1. Logistics Managers
2. Supply Chain Analysts
3. Inventory Planners
4. Warehouse Operations Managers
5. Procurement Specialists
6. Operations Managers
7. Supply Chain Consultants
8. Business Owners seeking to improve their supply chain.

Course Outline

Module 1: Fundamentals of Advanced Logistics & Supply Chain Management

- Overview of the modern supply chain and its importance.
- Key concepts and principles of logistics and material management.
- Different types of supply chains and their characteristics.
- The role of technology in transforming logistics operations.

- Understanding the flow of goods, information, and finance.

Module 2: Advanced Inventory Planning & Management

- Sophisticated demand forecasting techniques and models.
- Developing optimal inventory control policies and strategies.
- Implementing different inventory management systems (e.g., JIT, EOQ).
- Strategies for managing safety stock and buffer inventory.
- Analyzing inventory performance metrics and KPIs.

Module 3: Strategic Sourcing & Supplier Relationship Management

- Developing effective sourcing strategies and supplier selection criteria.
- Negotiation techniques and contract management.
- Evaluating and managing supplier performance and risk.
- Building collaborative and strategic partnerships with suppliers.
- Ethical considerations in sourcing and procurement.

Module 4: Warehouse Design, Operations & Automation

- Principles of efficient warehouse layout and design.
- Optimizing warehouse processes and workflows.
- Introduction to warehouse automation technologies (e.g., AGVs, AS/RS).
- Implementing warehouse management systems (WMS).
- Performance measurement and continuous improvement in warehousing.

Module 5: Transportation Management & Optimization

- Different modes of transportation and their characteristics.
- Route optimization and transportation planning strategies.
- Carrier selection and negotiation.
- Utilizing transportation management systems (TMS).
- Managing freight costs and improving delivery efficiency.

Module 6: Global Logistics & International Trade

- Understanding the complexities of international supply chains.
- Customs regulations, tariffs, and trade agreements.
- Managing cross-border transportation and documentation.
- Strategies for mitigating risks in global logistics.
- Cultural and legal considerations in international trade.

Module 7: Supply Chain Risk Management & Resilience

- Identifying potential risks and vulnerabilities in the supply chain.
- Developing risk mitigation and contingency plans.
- Implementing business continuity strategies.
- Utilizing risk management tools and techniques.
- Building a resilient and agile supply chain.

Module 8: Digital Logistics & Technology Adoption

- Overview of emerging digital technologies in logistics (IoT, AI, Blockchain).
- Implementing and leveraging data analytics for supply chain insights.

- The role of cloud computing and mobile technologies in logistics.
- Cybersecurity considerations in digital logistics.
- Developing a digital transformation strategy for logistics operations.

Module 9: Sustainable Logistics & Green Supply Chain Management

- Understanding the environmental impact of logistics operations.
- Implementing sustainable sourcing and procurement practices.
- Optimizing transportation for reduced emissions.
- Waste reduction and circular economy principles in logistics.
- Measuring and reporting on sustainability performance.

Module 10: Demand Forecasting & Sales and Operations Planning (S&OP)

- Advanced statistical forecasting methods and tools.
- Collaborative planning and forecasting techniques.
- Developing an effective Sales and Operations Planning (S&OP) process.
- Integrating demand forecasts with inventory and production plans.
- Measuring the accuracy and effectiveness of forecasting.

Module 11: Lean Principles & Process Improvement in Logistics

- Introduction to Lean methodologies and their application in logistics.
- Identifying and eliminating waste in logistics processes.
- Value stream mapping and process analysis.
- Implementing continuous improvement initiatives (Kaizen).
- Applying Lean tools and techniques in warehouse and transportation.

Module 12: Supply Chain Performance Measurement & KPIs

- Identifying key performance indicators (KPIs) for logistics and material management.
- Developing a balanced scorecard for supply chain performance.
- Data collection and analysis for performance monitoring.
- Benchmarking and best practice comparisons.
- Using performance data for continuous improvement.

Module 13: Project Management in Logistics & Supply Chain Initiatives

- Applying project management principles to logistics initiatives.
- Defining project scope, objectives, and deliverables.
- Developing project timelines and resource allocation plans.
- Managing project risks and issues.
- Monitoring and controlling project progress and outcomes.

Module 14: Negotiation & Contract Management in Logistics

- Advanced negotiation strategies and tactics.
- Developing and managing logistics contracts with suppliers and carriers.
- Understanding legal and contractual considerations.
- Building strong and effective negotiation relationships.
- Resolving disputes and managing contract performance.

Module 15: Future Trends & Innovations in Logistics & Supply Chain

- Exploring emerging trends shaping the future of logistics (e-commerce logistics, last-mile delivery).
- Understanding the impact of automation and robotics.
- The role of artificial intelligence and machine learning in supply chain.
- The future of sustainable and resilient supply chains.
- Preparing for future challenges and opportunities in logistics.

Training Methodology

This course employs a blended learning approach incorporating:

- **Interactive Lectures**: Engaging presentations covering key concepts and principles.
- **Case Studies**: Real-world examples illustrating practical application of learned techniques.
- **Group Discussions**: Collaborative sessions for sharing insights and problem-solving.
- **Practical Exercises**: Hands-on activities and simulations to reinforce learning.
- **Technology Demonstrations**: Showcasing relevant software and tools used in the industry.

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
23 Nov 2026	04 Dec 2026	Physical	$12,000

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