Logistics & Supply Chain Management in the Energy Sector

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MasterPeak
TRAINING CENTER
MTC

Logistics & Supply Chain Management in the Energy Sector

5 days training course

For detailed information on training course dates, please click the link:

Logistics & Supply Chain Management in the Energy Sector

Target Audience:

This course is designed for professionals working within the energy sector, including logistics managers, supply chain coordinators, procurement officers, operations managers, and engineers involved in energy production, distribution, and infrastructure. It is also suitable for business executives, policymakers, and anyone interested in understanding the logistics and supply chain dynamics specific to the energy industry, including oil, gas, and renewables.

Introduction:

Logistics & Supply Chain Management in the Energy Sector is a comprehensive 5-day training program tailored to address the unique challenges of logistics and supply chain management in the energy industry. This course will provide participants with an in-depth understanding of the supply chain processes involved in sourcing, transporting, and distributing energy products, from raw material procurement to end-user delivery. Special emphasis is placed on understanding transportation and procurement strategies, performance measurement, risk mitigation, inventory management, and emerging technologies such as blockchain and the Internet of Things (IoT) that are reshaping the industry.

Through this program, participants will gain the practical skills needed to optimize supply chain performance, ensure compliance, mitigate risks, and enhance efficiency in the energy sector.

Training Objectives:

- **Understand the key logistics and supply chain concepts** in the energy sector, focusing on oil, gas, and renewable energy.
- **Examine the impact of transportation decisions** on supply chain efficiency, including international shipping terms and hazardous materials management.
- **Identify procurement strategies and the role of purchasing** in the energy supply chain, and learn how to measure procurement performance through Key Performance Indicators (KPIs).
- **Learn to mitigate risks** in logistics operations, inventory control, and financial security.
- **Optimize inventory management techniques**, including the application of Pareto's Law, ABC analysis, and Kraljic's Matrix for inventory categorization.
- **Explore the role of advanced technologies** such as blockchain and IoT in transforming supply chain management, improving transparency, and driving operational efficiencies.

Course Outline:

DAY ONE: LOGISTICS AND SUPPLY CHAIN CONCEPTS IN THE ENERGY SECTOR

- **Defining Logistics and Supply Chain Management**
  - Key distinctions and roles of logistics vs. supply chain in the energy sector
- **The Evolution of Supply Chain in Oil & Gas**
  - How logistics in energy evolved from traditional practices to modern supply chain strategies
- **Different Types of Supply Chain Models**
  - Comparison of traditional, lean, and agile supply chain models
- **Impact of Logistics on Business Environment**
  - The importance of logistics in achieving operational efficiency and competitive advantage
- **SCOR Model: Plan, Source, Make, Deliver, Return**
  - Introduction to the SCOR framework and its relevance to energy supply chains
- **Total Cost of Ownership (TCO)**
  - Analyzing costs across the energy supply chain to improve financial decision-making

DAY TWO: TRANSPORTATION IN ENERGY SUPPLY CHAINS

- **The Role of Transportation in the Energy Sector**
  - The importance of efficient transportation for the smooth operation of energy supply chains
- **Shipping Management Decisions**
  - Key factors that influence decisions related to the transportation of energy products
- **International Commercial Terms (Incoterms)**
  - Overview of global shipping terms and their role in international energy trade
- **Liabilities and Responsibilities of Shippers and Importers**
  - Understanding contractual obligations in international energy transportation
- **Documentation in Transport Management**
  - Essential paperwork and legal considerations for transporting energy products
- **Transportation of Hazardous Materials**
  - Special precautions and regulations for handling hazardous energy products

DAY THREE: PERFORMANCE AND RISK MITIGATION IN PROCUREMENT

- **Procurement vs. Purchasing**
  - Clarifying the differences and respective roles in supply chain management
- **Key Performance Indicators (KPIs) in Procurement**
  - Defining and tracking KPIs to improve procurement efficiency

- **Risk Mitigation in Supply Chain Operations**
    - Identifying and managing risks in logistics, inventory, financial, and security domains
- **Using Kraljic's Matrix in Procurement**
    - Managing supplier relationships and categorizing suppliers based on risk and value
- **Spares Inventory Categorization**
    - Managing spare parts inventory and ensuring operational readiness

DAY FOUR: INVENTORY MANAGEMENT STRATEGIES

- **Optimizing Inventory Using Pareto's Law**
    - Applying the 80/20 rule to manage and optimize inventory
- **ABC Analysis for Cost Control and Waste Reduction**
    - Techniques for inventory prioritization and minimizing waste
- **Selective Inventory Control Management**
    - Implementing targeted strategies for controlling different types of inventory
- **Using Kraljic's Matrix in Inventory Management**
    - Categorizing inventory based on strategic importance and risk
- **Reducing Excess and Obsolete Inventory**
    - Strategies for minimizing excess stock and obsolete items
- **Improving Logistics and Supply Chain Efficiency**
    - Techniques to streamline logistics and optimize inventory for better performance

DAY FIVE: ADVANCED TECHNOLOGIES IN LOGISTICS AND SUPPLY CHAIN

- **Blockchain Technology and Its Impact on Supply Chain**
    - An overview of blockchain technology and its benefits in energy logistics
- **How Blockchain Enhances Transparency in Logistics**
    - Use of blockchain for secure, transparent tracking of energy products
- **Internet of Things (IoT) in Supply Chain Management**
    - Exploring how IoT improves logistics operations through real-time data tracking
- **Revolutionizing Logistics with IoT**
    - Practical examples of how IoT is transforming energy supply chain operations

DOCUMENTATION

The **MTC team** has meticulously prepared **high-quality training materials** for distribution to all delegates.

CERTIFICATES

An **accredited Certificate of Completion** will be awarded to participants who successfully attend and complete the program.

SCHEDULE

Course sessions are scheduled as follows:

- **Morning Session:** 09:00 AM – 1:00 PM
- **Afternoon Session:** 01:00 PM – 05:00 PM

REGISTRATION & PAYMENT

To register, please complete the **registration form** available on the course page and submit it with your **preferred payment method**. Alternatively, you can contact us via **email or WhatsApp** for assistance.

TRAVEL & TRANSPORT

We ensure a **seamless travel experience** by providing **airport-hotel-airport** transfers for all participants.