

Course No. 1808

Oil and Gas Supply Chain and Logistics Management Training Course

**PETROLEUM ECONOMICS, ENERGY MARKETS & COMMERCIAL
MANAGEMENT
OIL & GAS**

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Oil and Gas Supply Chain and Logistics Management Training Course provides a comprehensive and practical framework for managing the complex supply chains that support exploration, production, processing, transportation, refining, and distribution activities. The course focuses on coordinating the flow of materials, equipment, services, information, and resources to ensure operational continuity and cost-effective performance.

Participants will examine the key components of oil and gas supply chain management, including demand planning, procurement, sourcing, supplier management, inventory control, warehousing, transportation, materials management, and logistics coordination. Particular attention is given to the supply of critical equipment, spare parts, materials, and services required to maintain uninterrupted operations.

The course also addresses the unique challenges of oil and gas supply chains, including long lead times, volatile demand, remote and offshore locations, international transportation, supplier delays, geopolitical risks, customs requirements, equipment criticality, and supply disruptions. Participants will develop practical approaches to identify vulnerabilities and improve supply chain resilience.

The program integrates strategic sourcing, procurement, inventory management, logistics, supplier performance, risk management, digital transformation, cost optimization, and operational continuity, enabling organizations to build agile, resilient, and high-performing supply chains that support operational excellence and business performance.

Objectives

- By the end of the course, participants will be able to:
- Analyze the structure and key components of an integrated oil and gas supply chain.
- Evaluate material, equipment, and service requirements based on operational and project needs.
- Develop effective demand, procurement, and supply planning strategies.
- Apply advanced approaches to inventory and critical materials management.
- Evaluate supplier capabilities and develop effective supplier management strategies.
- Improve procurement and sourcing processes to support operational efficiency.

- Analyze transportation, warehousing, and material handling costs and identify optimization opportunities.
- Assess supply chain risks and develop appropriate mitigation and business continuity strategies.
- Apply relevant key performance indicators to measure supply chain and logistics effectiveness.
- Utilize digital technologies and data analytics to improve supply chain visibility and decision-making.
- Develop strategies to strengthen supply chain resilience and responsiveness to disruptions.
- Design practical improvement initiatives to reduce costs, improve availability, and strengthen supply chain performance.

Who Should Attend

This course is designed for professionals and managers responsible for supply chain management, procurement, purchasing, logistics, materials management, inventory, warehousing, transportation, and supplier relationships within oil and gas companies, energy organizations, petroleum service companies, refineries, and industrial organizations.

It is particularly suitable for Supply Chain Managers, Procurement Managers, Purchasing Specialists, Logistics Managers, Materials Managers, Inventory Managers, Warehouse Managers, Transportation Coordinators, Contract Specialists, Supplier Relationship Managers, Project Engineers, Planning Professionals, Operations Professionals, and Supply Chain Analysts.

The program is also highly relevant to executives, senior managers, and decision makers responsible for operational continuity, cost optimization, supplier performance, critical equipment availability, logistics efficiency, and supply chain resilience across oil and gas operations.

Learning Outcomes

- Upon successful completion of the course, participants will be able to:
- Analyze the end-to-end supply chain from suppliers to operational and project sites.
- Identify the specific logistics requirements of oil and gas operations.
- Develop effective demand, procurement, and materials planning processes.
- Optimize inventory levels while reducing excess and obsolete stock.

- Identify and prioritize critical materials, equipment, and spare parts.
- Evaluate supplier performance using structured criteria and performance indicators.
- Improve transportation, shipping, warehousing, and material handling processes.
- Identify supply chain bottlenecks, delays, and inefficiencies.
- Assess supply chain and logistics risks and develop appropriate response strategies.
- Use performance indicators and data analytics to support supply chain decisions.
- Apply digital solutions to improve material tracking, procurement visibility, and shipment management.
- Develop an integrated strategy for improving the efficiency, resilience, and responsiveness of an oil and gas supply chain.

Course Outline

DAY 01

Fundamentals of Oil and Gas Supply Chain Management

- Understanding supply chain management in the oil and gas industry
- Characteristics of petroleum supply chains
- Supply chain activities across exploration, production, processing, refining, and distribution
- Relationship between supply chain performance and operational continuity
- Demand forecasting and operational requirements planning
- Materials and equipment planning
- Managing the flow of materials, information, and financial resources
- Critical materials and equipment identification
- Supply chain requirements for oil and gas projects
- Remote, offshore, and geographically dispersed operations
- Total supply chain cost management

PRACTICAL APPLICATION

Mapping an integrated oil and gas supply chain and identifying improvement opportunities

DAY 02**Procurement, Strategic Sourcing & Supplier Management**

- Procurement strategy in the oil and gas industry
- Procurement planning and requirements definition
- Strategic sourcing and supplier identification
- Supplier prequalification and capability assessment
- Request for quotation and tender management
- Commercial evaluation and supplier selection
- Negotiation strategies and supply terms
- Contract management and supplier relationships
- Supplier performance measurement
- Strategic supplier relationship management
- Supplier diversification and alternative sourcing
- Managing supplier delays, shortages, and performance issues

PRACTICAL APPLICATION

Developing a supplier evaluation model and sourcing strategy for critical oil and gas materials

DAY 03**Inventory, Materials & Warehouse Management**

- Fundamentals of inventory management in oil and gas
- Inventory classification and prioritization
- Criticality-based inventory management
- Safety stock and reorder point determination
- Spare parts and critical equipment management
- Long-lead-time materials management
- Managing slow-moving, obsolete, and excess inventory
- Warehouse planning and storage optimization
- Material receiving, inspection, and verification
- Storage requirements for hazardous and sensitive materials

DAY 03 — CONTINUED

- Materials tracking and lifecycle management

PRACTICAL APPLICATION

Analyzing an oil and gas inventory portfolio and identifying opportunities to reduce cost while maintaining availability

DAY 04

Logistics, Transportation & Supply Chain Risk Management

- Logistics planning for oil and gas operations
- Road, sea, and air transportation
- International shipping and logistics coordination
- Port, airport, and site logistics management
- Transportation of oversized and heavy equipment
- Warehousing, handling, and temporary storage
- Logistics management for remote and offshore locations
- Project logistics and construction supply requirements
- Geopolitical risks and supply chain disruptions
- Alternative sourcing and contingency planning
- Business continuity and supply assurance
- Crisis response and logistics disruption management

PRACTICAL APPLICATION

Developing a logistics plan for delivering critical equipment to a remote oil and gas facility

DAY 05

Supply Chain Optimization, Digitalization & Resilience

- Supply chain performance management
- Key performance indicators for oil and gas supply chains
- Total cost analysis and procurement spend optimization

DAY 05 — CONTINUED

- Improving material availability and service levels
- Lead-time reduction and delivery performance improvement
- Building agile and resilient supply chains
- Digital transformation of procurement and logistics
- Enterprise resource planning and supply chain management systems
- Digital tracking of materials, shipments, and inventory
- Data analytics for supply chain decision-making
- Sustainable logistics and environmental performance
- Continuous improvement and supply chain excellence

FINAL WORKSHOP

Developing an integrated Oil and Gas Supply Chain Optimization Strategy covering cost reduction, material availability, supplier performance, risk management, digitalization, and operational resilience.

Register or Request More Information

Course page: <https://quest-training.com/courses/oil-and-gas-supply-chain-and-logistics-management-training-course>

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