ADVANCED OIL AND GAS SUPPLY CHAIN MANAGEMENT



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Introduction

Oil and gas supply chains stretch across remote fields, offshore platforms, pipelines, refineries, and international ports, and they operate under conditions where a single missing item can halt production worth millions per day. Demand is volatile, lead times are long, suppliers are technical, and safety and compliance obligations apply at every step. This Advanced Oil and Gas Supply Chain Management Training Course gives supply chain, procurement, and operations professionals a complete method for managing that chain end to end. Participants learn strategic planning, integrated demand and supply planning, sourcing for technical categories, logistics to remote sites, inventory control for critical spares, and risk management across the network.

Advanced Oil and Gas Supply Chain Management Course Objectives

- Apply supply chain strategy to upstream, midstream, and downstream operations.
- Build integrated planning across demand, supply, and distribution.
- Run sales and operations planning for oil and gas operations and projects.
- Segment categories and design sourcing strategies for technical spend.
- Plan long-lead items against drilling, project, and shutdown schedules.
- Control inventory of critical spares, rotables, and consumables.
- Design logistics to remote, offshore, and harsh-environment sites.
- Manage supply chain risk: disruption, single source, and geopolitical exposure.
- Apply HSE and sustainability requirements across the supply chain.
- Measure performance with reliability, cost, availability, and risk indicators.

Course Methodology

- Facilitated sessions built on real planning data, material records, and supply files.

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- Case workshops on field stockouts, shutdown delays, and supply chain disruption.
- Spreadsheet drills on demand planning, inventory parameters, and cost analysis.
- Integrated planning and inventory policy exercises for technical categories.
- Group exercise on a supply chain improvement plan for a field operation.

Who Should Take This Course

- Supply chain and materials managers in oil and gas.
- Demand, supply, and maintenance planners.
- Procurement and category managers for technical spend.
- Warehouse and logistics supervisors on field and offshore sites.
- Operations and project managers dependent on material availability.
- Risk and audit staff reviewing supply chain controls.

Advanced Oil and Gas Supply Chain Management Course Outlines

Day 1: Supply Chain Strategy and Structure

- Upstream, midstream, and downstream supply chain characteristics.
- Supply chain strategy alignment with business and project objectives.
- Capital project supply versus operational and maintenance supply.
- Network design: supply bases, regional warehouses, and field stores.
- Make-or-buy, outsourcing, and contractor supply arrangements.
- Local content and national capability requirements.
- Supply chain governance, roles, and decision rights.

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Day 2: Integrated Planning and Demand Management

- Demand sources: drilling programmes, projects, and maintenance plans.
- Material requirement planning from bills of material and work orders.
- Sales and operations planning for operational and project supply.
- Capacity and resource constraints in the supply plan.
- Long-lead item identification and early commitment planning.
- Shutdown and turnaround material planning and staging.
- Plan stability, revisions, and change control.

Day 3: Sourcing, Supplier Management, and Contracts

- Category segmentation for technical and MRO spend.
- Supplier prequalification: HSE, technical, and financial criteria.
- Tender design, weighted evaluation, and total cost of ownership.
- Contract structures: lump sum, unit rate, day rate, and reimbursable.
- Frame agreements, call-off orders, and consignment stock.
- Supplier performance scorecards and development programmes.
- Anti-bribery, ethics, and conflict of interest controls.

Day 4: Logistics, Inventory, and Field Operations

- Inbound logistics, customs, and project cargo handling.
- Transport modes to remote and offshore locations.
- Supply base operations, staging, and material handling.
- Storage and preservation requirements in harsh environments.
- Critical spares policy, rotables, and repairable items.

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- Reorder points, safety stock, and min-max settings for spares.
- Cycle counting, stock accuracy, and obsolescence control.

Day 5: Risk, Performance, and Continuous Improvement

- Supply chain risk register and mitigation planning.
- Single source, geopolitical, currency, and weather exposure.
- Continuity planning and emergency logistics.
- HSE and sustainability requirements across the chain.
- KPIs: material availability, delivery reliability, stock accuracy, and cost per unit.
- Technology: ERP, WMS, TMS, and tracking systems.
- Building an integrated supply chain improvement roadmap.

Conclusion

By successfully completing the Advanced Oil and Gas Supply Chain Management Training Course, participants will have acquired a thorough working knowledge of oil and gas supply chain strategy, integrated planning, technical category sourcing, long-lead and shutdown planning, logistics to remote sites, critical spare inventory control, risk management, and performance measurement. They will leave able to keep operations supplied without overstocking, protect schedules against long lead times, and hold suppliers to HSE and delivery standards. Gentex Training Center delivers this programme with supply chain practitioners who manage these operations in live oil and gas environments.

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FAQs for the Advanced Oil and Gas Supply Chain Management course

Q1 What is the "Advanced Oil and Gas Supply Chain Management" course about?

It is a five-day programme on managing the supply chain in oil and gas operations. It covers supply chain strategy, integrated planning, technical category sourcing, long-lead and shutdown planning, logistics to remote sites, critical spare inventory, risk, and performance measurement.

Q2 What are the key benefits of the "Advanced Oil and Gas Supply Chain Management" course?

Participants keep critical materials available without inflating stock, protect drilling and shutdown schedules against long lead times, and reduce supply disruption exposure on remote routes. They also gain supplier controls that hold vendors to HSE and delivery standards.

Q3 What skills will I gain from the "Advanced Oil and Gas Supply Chain Management" course?

You will gain oil and gas supply chain strategy and integrated planning, technical category sourcing and supplier management, logistics and critical spare inventory control, and supply chain risk and performance management.

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Q4 What tools, methods, or standards are covered in the "Advanced Oil and Gas Supply Chain Management" course?

The course works with supply network design covering supply bases, regional warehouses and field stores, material requirement planning from bills of material and work orders, sales and operations planning for operational and project supply, long-lead item identification and early commitment planning, shutdown material staging, the Kraljic portfolio matrix for technical and MRO categories, supplier prequalification on HSE, technical and financial criteria, weighted tender evaluation and total cost of ownership, frame agreements and call-off orders, consignment stock, supplier scorecards, Incoterms 2020 and customs handling for project cargo, critical spares policy for rotables and repairable items, safety stock and reorder point models, cycle counting with tolerance thresholds, ageing and obsolescence analysis, and supply chain KPIs including material availability, delivery reliability and stock accuracy.

Q5 How is the "Advanced Oil and Gas Supply Chain Management" course applied in real-world practice?

Teams apply it when planning materials for a turnaround, committing early on a long-lead drilling item, reviewing spare parts levels for a field, arranging offshore supply schedules, assessing a single-source risk, and preparing monthly supply performance reports. It also guides local content planning and consignment stock negotiations.