LOGISTICS OF OIL, GAS AND PETROLEUM PRODUCTS



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TRAINING CENTER

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Introduction

Oil and gas logistics begins upstream and never stops. Drilling crews need equipment at remote sites, refineries need crude on schedule, and distributors need product at terminals before tanks run dry. Each stage involves specialised transport, hazardous materials handling, and storage under strict safety rules. This Logistics of Oil, Gas and Petroleum Products Training Course gives logistics, supply chain, and operations professionals a complete working method for that environment. Participants learn upstream and downstream supply chains, pipeline and marine transport, tank farm and terminal operations, HSE and regulatory compliance, and cost and performance measurement. Furthermore, the course connects logistics reliability to production uptime and customer service.

Logistics of Oil, Gas and Petroleum Products Course Objectives

- Apply supply chain structures across upstream, midstream, and downstream.
- Plan drilling and well-site logistics with rig scheduling and material control.
- Manage pipeline operations: nominations, batching, and flow assurance basics.
- Apply marine and road transport practice for hazardous petroleum cargo.
- Operate tank farms and terminals with stock and throughput control.
- Apply HSE and regulatory requirements to petroleum handling and storage.
- Manage spares, consumables, and equipment for remote operations.
- Control logistics cost: freight, storage, fuel, and demurrage.
- Apply risk management for spills, route disruption, and supply interruption.
- Measure performance with uptime, delivery reliability, and cost per barrel.

Course Methodology

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- Facilitated sessions built on real transport records, terminal data, and supply plans.
- Case workshops on rig delays, terminal congestion, and product shortage events.
- Tank and throughput calculation exercises with live terminal data.
- HSE and emergency response scenario practice.
- Group exercise on an integrated oil and gas logistics plan.

Who Should Take This Course

- Oil and gas logistics and supply chain managers.
- Drilling and well-site logistics coordinators.
- Terminal, tank farm, and depot supervisors.
- Petroleum transport and distribution staff.
- HSE and compliance officers in oil operations.
- Procurement and materials controllers in energy companies.

Logistics of Oil, Gas and Petroleum Products Course Outlines

Day 1: Oil and Gas Supply Chain Structure

- Upstream, midstream, and downstream activities and their interfaces.
- Exploration, drilling, production, refining, and distribution flows.
- Key products: crude, condensate, LPG, and refined fuels.
- Supply chain roles: operators, service companies, traders, and distributors.
- Materials management and spares strategy for field operations.
- Remote site logistics and base camp support.
- Contractual structures with service providers.

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Day 2: Upstream and Well-Site Logistics

- Rig scheduling and mobilisation planning.
- Drilling material supply and consumables control.
- Heavy lift, crane, and specialised equipment movement.
- Aviation and marine support for offshore operations.
- Personnel transport, crew rotation, and safety rules.
- Materials tracking from base to well site.
- Emergency response and medevac planning.

Day 3: Transport of Petroleum Products

- Pipeline operations: nominations, batching, and interface management.
- Flow assurance basics and pressure monitoring.
- Tanker and barge transport for crude and products.
- Road tanker operations, loading, and delivery control.
- Dangerous goods classification, labelling, and documentation.
- Emergency response for spills and road incidents.
- Freight cost and demurrage control.

Day 4: Terminals, Tank Farms, and Storage

- Terminal layout, loading racks, and metering systems.
- Tank farm operations and stock measurement.
- Throughput planning and loading scheduling.
- Blending, quality control, and contamination prevention.
- Vapour recovery, sealing, and emission controls.

- Maintenance and inspection of tanks and pipelines.
- Depot and retail distribution planning.

Day 5: HSE, Risk, and Performance

- HSE requirements for petroleum handling and storage.
- Permit to work, risk assessment, and safety observation.
- Spill prevention, containment, and response planning.
- Regulatory compliance: transport, storage, and environmental rules.
- Logistics KPIs: uptime, delivery reliability, and cost per barrel.
- Risk management for route disruption and supply interruption.
- Building an integrated oil and gas logistics roadmap.

Conclusion

By successfully completing the Logistics of Oil, Gas and Petroleum Products Training Course, participants will have acquired a thorough working knowledge of upstream and downstream supply chains, rig and well-site logistics, pipeline and marine transport of petroleum products, terminal and tank farm operations, HSE and regulatory compliance, cost control, and logistics performance measurement. They will leave able to plan and control petroleum movement safely, keep field and terminal operations supplied on time, and show logistics cost and reliability with evidence. Gentex Training Center delivers this programme with oil and gas logistics practitioners working in live operations.

FAQs for the Logistics of Oil, Gas and Petroleum Products course

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Q1 What is the "Logistics of Oil, Gas and Petroleum Products" course about?

It is a five-day programme on moving and storing petroleum products safely and reliably across the industry. It covers upstream and downstream supply chains, rig and well-site logistics, pipeline and marine transport, terminals and tank farms, HSE and compliance, and performance measurement.

Q2 What are the key benefits of the "Logistics of Oil, Gas and Petroleum Products" course?

Participants keep field and terminal operations supplied without rig or depot downtime, control freight, demurrage, and storage cost with evidence, and meet HSE and environmental obligations in petroleum handling. They also plan emergency response with prepared scenarios rather than improvised reaction.

Q3 What skills will I gain from the "Logistics of Oil, Gas and Petroleum Products" course?

You will gain oil and gas supply chain and materials planning, rig and well-site logistics coordination, pipeline, marine, and road transport of petroleum products management, and terminal, tank farm, HSE, and logistics cost control.

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Q4 What tools, methods, or standards are covered in the "Logistics of Oil, Gas and Petroleum Products" course?

The course works with upstream, midstream and downstream supply chain mapping, drilling rig scheduling and mobilisation planning, drilling material and consumables control, heavy lift and specialised equipment movement, aviation and marine support planning, personnel transport and crew rotation rules, materials tracking from base to well site, medevac and emergency response planning, pipeline nominations, batching and interface management, flow assurance basics and pressure monitoring, tanker and barge operations, road tanker loading and delivery control, dangerous goods classification, labelling and documentation, spill response planning, freight cost and demurrage control, terminal layout with loading racks and metering systems, tank farm stock measurement, throughput planning and loading scheduling, blending and contamination prevention, vapour recovery and emission controls, tank and pipeline inspection and maintenance, permit to work and risk assessment, regulatory compliance for transport, storage and environment, and KPIs covering uptime, delivery reliability and cost per barrel.

Q5 How is the "Logistics of Oil, Gas and Petroleum Products" course applied in real-world practice?

Teams apply it when planning a rig mobilisation, calculating tank stock before a depot refill, scheduling a loading rack operation at a terminal, controlling demurrage on a product cargo, running a spill response drill, and reporting delivery reliability and logistics cost at an operations review.