RISK MANAGEMENT IN THE SUPPLY CHAIN FOR THE OIL, GAS & PETROCHEMICALS INDUSTRY



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Introduction

Oil, gas, and petrochemical supply chains carry risk in a form most industries never face. A single valve arriving late can delay a shutdown, a non-compliant spare can create a safety hazard, and a sanction or a port closure can leave equipment stranded for months. This Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry Training Course gives procurement, supply chain, and HSE professionals a complete working method for that exposure. Participants learn risk identification and assessment, supplier and market risk, logistics and operational risk, HSE and compliance risk, mitigation design, and resilience measurement.

Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry Course Objectives

- Apply supply chain risk identification frameworks to oil, gas, and petrochemical operations.
- Assess supplier risk through financial, technical, and HSE performance.
- Manage market and price risk for commodities and critical equipment.
- Assess logistics risk: ports, transport, customs, and route disruption.
- Apply HSE and process safety requirements to procurement decisions.
- Apply sanctions, export control, and anti-bribery compliance screening.
- Design mitigation: dual sourcing, buffer stock, and long-term agreements.
- Build business continuity and contingency plans for critical supply lines.
- Apply insurance and contract levers: force majeure, liability, and indemnity.
- Measure resilience with risk exposure, recovery time, and disruption cost.

Course Methodology

- Facilitated sessions built on real supplier records, incident reports, and procurement plans.

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- Case workshops on shutdown delays, supplier failure, and cargo disruption.
- Risk scoring, criticality, and mitigation cost exercises with live data.
- Contract and insurance review labs for oil and gas supply terms.
- Group exercise on a supply chain risk register and resilience plan.

Who Should Take This Course

- Supply chain and procurement risk managers in energy companies.
- Category and sourcing managers for oil, gas, and petrochemical spend.
- HSE and process safety officers involved in procurement.
- Contract and compliance officers in the energy sector.
- Logistics, materials, and warehouse managers in oil operations.
- Internal audit and business continuity staff.

Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry Course Outlines

Day 1: Supply Chain Risk Framework for Energy

- Risk categories: supply, demand, operational, market, and compliance.
- End-to-end mapping from wellhead and refinery to customer.
- Criticality analysis for equipment, spares, and consumables.
- Risk appetite, tolerance, and governance for energy procurement.
- Regulatory framework: HSE, environmental, and trade rules.
- Risk register construction and ownership.
- Reporting supply chain risk to executive and board level.

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Day 2: Supplier and Market Risk

- Supplier segmentation by criticality and spend.
- Financial health assessment and insolvency early warning.
- Technical and HSE capability assessment.
- Quality failure, counterfeit parts, and specification risk.
- Commodity price risk and index-linked contracting.
- Currency and payment risk in international purchase.
- Sub-tier supplier and single-source exposure.

Day 3: Logistics and Operational Risk

- Port, terminal, and route disruption assessment.
- Marine, road, and project cargo risk in oil and gas logistics.
- Customs, licensing, and import restriction risk.
- Cold chain, hazardous goods, and storage risk.
- Shutdown and turnaround material risk.
- Spare parts availability and obsolescence exposure.
- Emergency sourcing and expediting procedures.

Day 4: Compliance, HSE, and Contract Risk

- Sanctions, export control, and denied party screening.
- Anti-bribery, conflicts of interest, and ethics controls.
- HSE and process safety requirements in specifications.
- Contractor safety management and prequalification.
- Contract levers: force majeure, liability, indemnity, and liquidated damages.

- Insurance cover: cargo, liability, business interruption, and credit.
- Dispute resolution and arbitration practice.

Day 5: Mitigation, Continuity, and Performance

- Mitigation options: dual sourcing, buffer stock, and strategic agreements.
- Inventory strategy for critical spares and long lead items.
- Business continuity planning for critical supply lines.
- Scenario analysis and stress testing for disruption.
- KPIs: risk exposure, recovery time, and disruption cost.
- Auditing supply chain risk controls and records.
- Building a supply chain resilience roadmap for energy operations.

Conclusion

By successfully completing the Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry Training Course, participants will have acquired a thorough working knowledge of supply chain risk identification and assessment, supplier and market risk management, logistics and operational risk, HSE, compliance and contract risk, mitigation design, and resilience measurement. They will leave able to detect exposure before it reaches a shutdown, act with a prepared plan when disruption arrives, and report supply chain risk in terms the board and regulators accept. Gentex Training Center delivers this programme with energy supply chain and risk practitioners working in live operations.

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FAQs for the Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry course

Q1 What is the "Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry" course about?

It is a five-day programme on identifying and controlling supply chain risk in the energy and petrochemical sector. It covers risk frameworks and criticality, supplier and market risk, logistics and operational risk, compliance, HSE and contract risk, mitigation design, and resilience measurement.

Q2 What are the key benefits of the "Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry" course?

Participants detect supplier and route exposure before it delays a shutdown or turnaround, screen counterparties against sanctions and export controls with documented evidence, and hold critical spares and long lead items in the right quantity. They also report supply chain risk to the board and regulators with defensible numbers.

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Q3 What skills will I gain from the "Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry" course?

You will gain energy supply chain risk assessment and criticality analysis, supplier and market risk management, logistics, HSE, compliance, and contract risk control, and mitigation design, business continuity, and resilience measurement.

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Q4 What tools, methods, or standards are covered in the "Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry" course?

The course works with supply chain risk categorisation across supply, demand, operational, market and compliance, end-to-end risk mapping from wellhead and refinery to customer, criticality analysis for equipment, spares and consumables, risk appetite and governance frameworks, HSE, environmental and trade regulation, risk register construction, supplier segmentation by criticality and spend, supplier financial health assessment and insolvency early warning, technical and HSE capability assessment, counterfeit parts and specification risk control, commodity price risk and index-linked contracting, currency and payment risk, sub-tier and single-source exposure analysis, port, terminal and route disruption assessment, marine, road and project cargo risk, customs and import restriction risk, cold chain, hazardous goods and storage risk, shutdown and turnaround material planning, obsolescence exposure and spare parts availability, sanctions, export control and denied party screening, anti-bribery and conflict of interest controls, HSE and process safety requirements in specifications, contractor prequalification and safety management, force majeure, liability, indemnity and liquidated damages clauses, cargo, liability, business interruption and credit insurance, dispute resolution and arbitration, dual sourcing and buffer stock design, inventory strategy for critical spares and long lead items, business continuity planning, scenario analysis and stress testing, and KPIs covering risk exposure, recovery time and disruption cost.

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Q5 How is the "Risk Management in the Supply Chain for the Oil, Gas & Petrochemicals Industry" course applied in real-world practice?

Teams apply it when assessing a critical spare supplier before a turnaround, screening a new vendor against sanctions lists, planning buffer stock for a long lead item, testing a continuity plan for a disrupted route, reviewing a force majeure claim on a delayed cargo, and presenting supply chain risk at a board committee.