Advanced Oil and Gas Logistics and Supply Chain Management Training Course

30 Nov - 04 Dec 2026

Barcelona

5900 € (Per Person)

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Course Introduction / Overview:

The global oil and gas industry operates within a highly complex, volatile, and capital-intensive environment, where efficient logistics and supply chain management are not just operational necessities but critical strategic advantages. This comprehensive training course is designed to provide an in-depth understanding of the entire energy value chain, from upstream exploration and production to downstream distribution and marketing. Participants will explore the unique challenges inherent in oil and gas logistics, including managing remote and harsh operating environments, navigating complex regulatory frameworks, and mitigating significant geopolitical and market risks. Drawing upon foundational principles from leading academics like Dr. Martin Christopher, whose work in "Logistics & Supply Chain Management" emphasizes the importance of creating agile and resilient supply chains, this program applies these concepts directly to the energy sector. BIG BEN Training Center has developed this course to equip professionals with the advanced skills needed to optimize operations, reduce costs, enhance safety, and build sustainable supply chain models. This program delves into practical strategies for procurement, inventory control, transportation management, and the integration of cutting-edge digital technologies, ensuring participants can drive efficiency and innovation within their organizations.

Target Audience / This training course is suitable for:

- Logistics and Supply Chain Managers.
- Procurement and Sourcing Professionals.
- Operations and Production Managers.
- Project Managers in the energy sector.
- Freight Forwarders and Logistics Service Providers.
- Commercial and Contract Analysts.
- Warehouse and Inventory Supervisors.
- HSE (Health, Safety, and Environment) Officers.
- Government officials in energy ministries and regulatory bodies.
- Professionals aspiring to a career in energy logistics.

Target Sectors and Industries:

- Upstream Oil and Gas Exploration and Production (E&P) companies.
- Midstream companies focused on transportation and storage.
- Downstream refining, marketing, and distribution companies.
- Oilfield service and equipment providers.
- Engineering, Procurement, and Construction (EPC) contractors.
- Maritime and shipping companies serving the energy sector.
- Third-Party Logistics (3PL) and Fourth-Party Logistics (4PL) providers.
- Governmental energy departments and national oil companies.
- Renewable energy companies managing transitional logistics.

Target Organizations Departments:

- Supply Chain Management.
- Logistics and Distribution.
- Procurement and Purchasing.
- Operations Management.
- Project Management.
- Contracts and Commercial Departments.
- Health, Safety, and Environment (HSE).
- Warehousing and Inventory Management.
- Strategic Planning and Business Development.
- Finance and Cost Control.

Course Offerings:

By the end of this course, the participants will have able to:

- Analyze the complete oil and gas value chain from upstream to downstream.
- Develop effective logistics strategies for onshore and offshore operations.
- Implement best practices in procurement and vendor management for the energy sector.
- Master inventory management techniques for petroleum products and equipment.
- Evaluate and select optimal transportation modes for crude oil, gas, and refined products.
- Formulate robust risk mitigation plans for supply chain disruptions.
- Integrate health, safety, and environmental (HSE) standards into all logistics activities.
- Assess the impact of digital technologies like IoT and AI on energy logistics.
- Optimize supply chain performance through data analysis and key performance indicators.
- Navigate international trade compliance and customs procedures for energy commodities.

Course Methodology:

This training course employs a dynamic and interactive learning methodology designed to foster deep understanding and practical application of concepts. The approach at BIG BEN Training Center moves beyond traditional lectures to create an immersive educational experience. Sessions are built around real-world case studies from the global oil and gas industry, allowing participants to analyze complex logistical challenges and develop viable solutions. Interactive group discussions, team-based problem-solving exercises, and workshops encourage collaborative learning and the exchange of diverse perspectives. Participants will engage with practical tools and frameworks for supply chain optimization, risk assessment, and performance measurement. The facilitator will guide sessions using a blend of expert instruction, video materials, and simulation activities to reinforce key learning points. Continuous feedback is a core component of the methodology, ensuring that participants can clarify doubts and confidently apply their new skills to their professional roles. The focus is on equipping attendees with actionable knowledge and a strategic mindset to enhance logistics and supply chain performance immediately.

Course Agenda (Course Units):

Unit One: Foundations of Oil and Gas Supply Chain Management

- Introduction to the global energy market and its dynamics.
- The complete oil and gas value chain (upstream, midstream, downstream).
- Unique characteristics and challenges of energy logistics.
- Key terminology and concepts in petroleum supply chain management.
- The strategic role of logistics in project success and profitability.
- Understanding the key stakeholders and their influence on the supply chain.
- Regulatory frameworks and compliance in the oil and gas industry.

Unit Two: Upstream and Midstream Logistics Operations

- Logistics planning for exploration and drilling activities.
- Managing the supply chain for remote and offshore sites.
- Inbound logistics for materials, equipment, and personnel.
- Transportation management for rigs and production facilities.
- Midstream logistics including pipeline, rail, and tanker transport.
- Storage and terminal operations for crude oil and natural gas.
- Health, Safety, and Environment (HSE) in upstream logistics.

Unit Three: Downstream Logistics and Distribution

- Supply chain management in the refining process.
- Inventory management for refined petroleum products.
- Primary and secondary distribution network design.
- Transportation modes for fuels, lubricants, and petrochemicals.
- Retail and marketing logistics for petroleum products.
- Managing product quality and integrity throughout the supply chain.
- Emergency response planning for downstream distribution.

Unit Four: Procurement, Risk, and Sustainability in the Energy Supply Chain

- Strategic sourcing and procurement strategies in the oil and gas sector.
- Vendor selection, qualification, and performance management.
- Contract management and negotiation for logistics services.
- Identifying and assessing supply chain risks (geopolitical, operational, market).
- Developing risk mitigation and business continuity strategies.
- Integrating sustainability and ESG principles into the supply chain.
- Implementing circular economy concepts in oil and gas operations.

Unit Five: Future Trends and Digitalization in Energy Logistics

- The impact of digital transformation on the energy supply chain.
- Leveraging IoT, AI, and blockchain for enhanced visibility and efficiency.
- Supply chain analytics and data-driven decision-making.
- Lean principles and continuous improvement in logistics operations.
- The role of logistics in the energy transition and decarbonization.
- Future challenges and opportunities in global energy logistics.
- Developing a resilient and agile supply chain for the future.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

As the global energy transition accelerates, how must traditional oil and gas supply chain models fundamentally transform to maintain relevance and manage the dual challenge of ensuring energy security while supporting decarbonization goals?

What unique qualities does this course offer compared to other courses?

This training course distinguishes itself by offering a holistic, end-to-end perspective on the oil and gas supply chain, seamlessly connecting upstream, midstream, and downstream operations into a single, integrated framework. Unlike programs that focus narrowly on specific logistical functions, this course emphasizes the strategic interplay between different stages of the value chain, enabling participants to make more informed, system-wide decisions. A significant differentiator is its deep dive into contemporary challenges and future-forward topics; it moves beyond standard operational training to rigorously address risk management in a volatile geopolitical landscape, the practical integration of sustainability (ESG) principles, and the transformative impact of digitalization. The curriculum is built on a foundation of practical application, using real-world case studies and interactive simulations that mirror the complexities of the energy sector. This approach ensures that participants do not just lea
n theoretical concepts but also develop the critical thinking and problem-solving skills necessary to design and manage resilient, efficient, and forward-looking supply chains in one of the world's most demanding industries.