



Oil & Gas Technology and LNG Chain

29 November – 3 December 2026
Kuala Lumpur (Malaysia)



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Ref: 15778_326514 **Date:** 29 November – 3 December 2026 **Location:** Kuala Lumpur (Malaysia) **Fees:** 4900 Euro

Introduction:

The oil and gas industry is a cornerstone of the global energy sector, with technological advancements playing a crucial role in optimizing exploration, production, refining, and distribution processes. In recent years, the rise of liquefied natural gas LNG has transformed energy markets, providing a cleaner alternative to traditional fossil fuels and enabling efficient transportation of natural gas across long distances.

The LNG chain encompasses the entire process, from gas extraction and liquefaction to storage, transportation, and regasification. This Oil and Gas Technology and LNG Chain course will explore the critical technologies that drive the oil and gas industry. It will focus on the LNG supply chain and provide participants with a comprehensive understanding of its technical and operational aspects.

The Oil and Gas Technology and LNG Chain course comprehensively explores technological advancements, focusing on cutting-edge solutions that optimize industry processes. Participants will delve into LNG technology, gaining insights into the entire LNG chain, from production to distribution. The course addresses what oil and gas technology is, highlighting trends and innovations driving development.

Modules on upstream oil and gas technology provide an in-depth look at extraction techniques and exploration advancements. In contrast, sessions with oil and gas technology consultants bring real-world insights into emerging technologies. With a focus on building skills at an oil and gas technology center, participants will leave equipped to tackle industry challenges and leverage trends shaping the future.

Targeted Groups:

- Industry Professionals in Oil and Gas.
- Engineers and Technicians.
- LNG Supply Chain Managers.
- Energy Analysts and Consultants.
- Regulatory and Compliance Officers.
- Environmental and Sustainability Specialists.
- Researchers and Academics in Energy Studies.
- Business Development and Marketing Teams.
- Students and Graduates in Energy-related Fields.
- Policy Makers and Government Officials.

Course Objectives:

At the end of this Oil and Gas Technology and LNG Chain course, the participants will be able to:

- Provide a comprehensive overview of oil and gas exploration and production technologies.
- Examine the processes involved in LNG liquefaction and regasification.
- Analyze the transportation and storage methods of LNG.
- Explore safety practices and environmental considerations in the LNG supply chain.
- Develop skills in managing the LNG supply chain effectively.
- Assess market trends and the economic impact of LNG in global energy markets.
- Evaluate technological advancements and their implications for the oil and gas industry.
- Enhance project management competencies specific to oil and gas operations.
- Foster effective communication and collaboration among stakeholders in the industry.
- Encourage critical thinking and problem-solving skills in energy-related challenges.

Targeted Competencies:

By the end of this Oil and Gas Technology and LNG Chain training, the participant's competencies will:

- Understanding of Oil and Gas Exploration Technologies.
- Proficiency in LNG Liquefaction Processes.
- Knowledge of LNG Transportation and Storage Solutions.
- Familiarity with Safety and Environmental Regulations.
- Skills in Supply Chain Management for LNG.
- Competence in Energy Market Analysis.
- Ability to Evaluate Technological Innovations.
- Expertise in Project Management within Oil and Gas.
- Analytical Skills for Operational Efficiency.
- Communication Skills for Stakeholder Engagement.

Course Content:

Unit 1: Introduction to Oil and Gas Technologies:

- Overview of the oil and gas industry landscape.
- Key technologies in exploration and production.
- Advances in drilling techniques, including horizontal and offshore drilling.
- Role of geophysical and geological surveys in resource identification.
- Impact of digital technologies, including IoT and AI, on operations.
- Introduction to enhanced oil recovery methods.

Unit 2: The LNG Production Process:

- Overview of the LNG production cycle.
- Detailed explanation of natural gas extraction techniques.
- Process of liquefaction and the technology involved.
- Importance of cryogenic technology in LNG processing.
- Storage solutions for liquefied natural gas.
- Understanding the regasification process and its applications.

Unit 3: Transportation and Storage of LNG:

- Modes of LNG transportation, including LNG carriers and trucks.
- Safety measures and regulations for LNG transportation.
- LNG storage facilities and their operational standards.
- Analysis of the infrastructure required for efficient LNG distribution.
- Challenges associated with long-distance LNG transportation.
- The role of floating storage and regasification units FSRUs.

Unit 4: Safety, Environmental, and Regulatory Considerations:

- Overview of safety protocols in the oil and gas industry.
- Environmental impact assessment practices.
- Regulations governing LNG operations and emissions.
- Risk management strategies for LNG facilities.
- Best practices for maintaining environmental sustainability.
- Emergency response and incident management in oil and gas operations.

Unit 5: Market Dynamics and Future Trends in LNG:

- Analysis of global LNG market trends and demand drivers.
- The role of LNG in the transition to cleaner energy.
- Impact of geopolitical factors on LNG supply and pricing.
- Future technological innovations in LNG production and usage.
- Discussion on policy frameworks and incentives for LNG investment.
- Exploration of emerging markets and their potential for LNG growth.