



LNG Shipping



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Introduction:

This course charts a rich history of progress and innovation that has revolutionized the gas industry. From humble beginnings, the LNG industry and global trade have seen substantial growth in recent years. This LNG shipping course covers the transit of LNG cargos on voyages across the globe, which have become leading contributors to the energy mix and security of supply to existing and emerging energy markets. With a view full eye on the future of this innovative industry, during this course, delegates will be afforded with the key aspects of LNG shipping, encompassing operational and commercial aspects through to technological advances and new applications. Shipping is the heart of the LNG industry.

Understanding the end-to-end key topics enables effective decision-making for existing players within the industry and provides breadth and depth of knowledge for those new players looking to benefit from the opportunities presented in the evolving market.

Targeted Groups:

- Managers, supervisors, and engineers within the LNG industry
- Professionals within the shipping industry
- Professionals within energy trading and operations/asset management
- Interested parties within the world of energy and shipping such as surveyors
- Interested parties within risk management and insurance
- Professionals within energy technology interested parties within energy and energy retail developments
- Other Engineers who would like a further understanding of the LNG shipping processes

Course Objectives:

At the end of this course the participants will be able to:

- Understand the role LNG shipping plays within the gas industry
- Be able to determine the key points influencing global LNG trade
- Comprehend the technology and developments
- Understand operations, commercial and safety requirements
- Be able to appreciate the new industry trends and their effects on LNG shipping

Targeted Competencies:

- LNG ships and technology
- Shipping trade LNG shipping developments
- Custody transfer
- Incidents and safety record

Course Content:

Unit 1: Introduction to LNG Shipping and Technology:

- What is LNG
- Energy mix Security of supply
- End to end value chain
- LNG global trend and significant projects
- History of shipping
- Containment technology
- View of current tonnage

Unit 2: Shipping trade and LNG Stock Management:

- Shipping Routes and considerations
- LNG trade spot and fixed
- LNG stock management
- Quality considerations
- Material losses
- Liquefaction
- Part cargos
- Rollover

Unit 3: Ship Propulsion considerations and LNG Developments:

- Marine fuel oil and LNG as a marine fuel
- Emissions considerations
- FSRU and FSU
- FLNG FPSO
- Ship to ship, ship to shore to ship
- Reload operations
- Ice class and artic LNG
- Small scale, Bunkering, and retail LNG

Unit 4: Whole Fleet considerations and Custody Transfer:

- Ship shore compatibility
- Shipping audits
- Material transfer and quality measurements
- Surveyors requirements and process
- Contractual requirements
- Stock reconciliation

Unit 5: Loading/unloading requirements, Maintenance, and



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Safety:

- Ship shore meetings
- Recordings of transfer timings
- Letters of protest
- Maintenance requirements
- Safety systems
- Incidents
- Safety record and public opinion