

## 2021 LNG Loss Control & Marine Superintendent – Ship/ Shore Interface (2 Days)



Controlling and Prevention Storage, Transfer and Operational Losses can only be achieved by in depth knowledge of the Ship/Shore Interface and experience both ashore on LNG Facilities and on board LNG Tankers. Superintendence and Loss Control are very important techniques to assist your clients to recognize causes for loss and preventing them from happening. This course is designed to teach the students how to understand, investigate, report and control loss in quantity, quality and time.

### **Day 1:**

- Introductory Session – safety and security during the course
- Introduction to course content and timing. Gas glossary
- Gas and LNG Quiz
- Introduction to Gas/LNG Chain and Gas Concepts:
  - Discussion of characteristics of various gas market sectors
- Gas products
- Overview of gas reserves and gas trades, including LNG
- Gas/ LNG field development
- Gas and LNG markets and market structure issues
- Position of LNG in development of Stranded Gas

- Shale gas – a game changer and impact on LNG?
- Gas quality and gas/ LNG processing overview
- Gas transport and losses during transit by Sea.
- Prevention of Losses during LNG cargo transfer.
- Gas balancing issues – how gas storage is implemented:
  - Use of LNG to smooth out fluctuations in supply

## **Day 2:**

- LNG Market Overview
- Upstream Issues (overview only)
- Liquefaction of LNG
- Transportation of LNG: LNG shipping types and comparison. Typical costs
- Regasification of LNG – practicalities of choice and design of a receiving terminal
- Logistics and costs of LNG: cost of supply along LNG value chain
- Measurement of LNG.
- Losses during Measurement.
- Sampling of LNG.
- Losses due to Sampling error.
- Typical Project Timescales
- Pricing of LNG
- Short-term trading of LNG:
  - Pricing arbitrage
  - Other reasons for shorter term trading and constraint
- Summary of Gas and LNG commercial issues:
- Summary of gas and LNG pricing issues and latest trends:
  - Henry Hub, European practice (N and S Europe), Asia
- Case study of Loss Prevention in LNG terminal in Tong Yeong, South Korea..
- How to ensure faster turnaround for LNG ship's?
- How to minimize port stay for the ship?
- How to control Demurrage? Demurrage analysis for LNG
- Note of protest and Bill of Lading Concepts.
- Evaluation of students.

*We make people better!*



### **TTT Instructor: Capt. Shyam Paliwal**

- Experienced, proven, entrepreneurial maritime leader with record of high achievement and proactive approach to excellence who welcomes challenges as an opportunity to excel and recognizes that the satisfactions of accomplishment far outweigh the burden of leadership:
- 12 continuous years of successful hands-on problem solving and decision making experience in challenging, dynamic and multifaceted marine work environments at sea and ashore, in position of responsibility or other crucial decision-making leadership capacity.
- 7 years as senior officer aboard deep-draft LNG Tanker vessels transporting volatile cargoes in the world-wide liquid gas trade, with an unblemished safety record and outstanding personnel evaluations.
- 5 Years work experience at LNG and Oil Tanker Terminals in Korea in capacity of LNG advisor to Shell Shipping and Trading Company. Commissioned the 4 largest LNG carriers in the world the Q-Max vessels at LNG Import terminals in Korea. Each vessel is an LNG terminal on it's own with a Re-Liquefaction plant and an enclosed Flare.
- Supervised Building of 25 Oil and LNG Tankers at Samsung, Daewoo and Hyundai Shipyards in Korea as a Nautical Inspector while working for Shell in South Korea.
- 2 Years work experience as LNG consultant with Tank Terminal and Training Netherlands.
- Provided LNG marine operations, safety, and regulatory compliance consulting services to major energy and marine transportation companies.
- Significant shore side operations management experience with broad knowledge of commercial aspects of global maritime enterprise and energy shipping.
- **Master Mariner License IFOO-8700 from Government of India. Member of Nautical Institute UK.**
- LNG simulator training from Various Institutes worldwide Including Warsash Maritime Academy UK, and NYK Maritime Training Centre Yokohama.