



## FLNG Operation and Maintenance

Date	Venues	(\$Fees	Book your seat
03 Mar -07 Mar 2024	Bahrain	2900	<a href="#">Register Now</a>

### Introduction

For the successful operation of the LNG FPSO (FLNG) it is of vital importance to understand the process from well operation and subsea control, to separation, dehydration, liquefaction, storage and offload. The 5-day training course focuses on in maintaining the high level of safety and security during the entire process

The course highlights the key technical challenges and risks associated the operation and maintenance of an FLNG. It will arm the participant with a wealth of knowledge to help them advance their project.

#### This training course will feature:

- Operation and maintenance – Guidance and General Requirements
- Environmental Influences affecting FLNG operation
- Gas treatment
- Liquefaction
- Storage requirements
- Offloading operations
- Control and safety systems
- Safety in operation and maintenance

### Objectives

#### By the end of this training course, participants will be able to:

- Identify the key operational requirements
- Recognize the effects of the ocean environment on FLNG operation
- Understand tank cooling procedures and controlling the boil-off during tank filling
- Interpret process plant behaviour
- Appreciate safety in operation and maintenance

### Training Methodology

This training seminar will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative. This involves regular discussion between both delegates and course director. The training course will provide the participant with an in-depth knowledge through detailed information, real-life case studies, photos and video animation.

### Who Should Attend?

**This training seminar is suitable to a wide range of professionals but will greatly benefit:**

- Technical staff, project engineers, engineering discipline leads, engineering specialists, and operating staff
- Maintenance technicians, supervisors, and managers, as well as other non-engineering personnel

## **SEMINAR OUTLINE**

### **DAY 1**

#### **Introduction to LNG FPSO**

- Introduction to FLNG design and technology
- Rules and regulations, codes and standards
- Operation and maintenance requirements
- Mooring system
- Turret swivel system integrity
- SURF and Subsea Interfaces
- Environmental influences affecting FLNG operation

### **DAY 2**

#### **The LNG Process System**

- LNG properties
- Reception
- Pre-treatment
- LPG and condensate
- Liquefaction
- Process equipment

### **DAY 3**

#### **Storage and Offloading**

- Storing of the products
- Tank loading preparation
- Cargo handling (LNG, LPG and condensate)
- Boil-off effect
- Cargo transfer operations
- Tanker mooring procedures
- Emergency shut down and release

### **DAY 4**

#### **Power, Heating and Utility Systems**

- Power generation and power distribution system
- Heating sources and generators
- UPS and batteries
- Cooling system
- Utility systems
- Electrical system
- Piping systems
- Instrumentation

- Telecommunication

## DAY 5

### Safety in Operation and Maintenance

- Control and safety systems
- Hazards associated with process fluids
- Assessments of hazards
- Leakage and dispersion of LNG or hydrocarbon release
- Control of leaks and releases
- Emergency plan – equipment and procedures
- Fire prevention and control
- Electrical safety



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