



A188FM187  
Reference number

# CERTIFICATE OF COMPETENCE

This certificate is issued to:

**JESUS ALEJANDRO VALDÉS ENG**

For having completed the course:

## ***PROFICIENCY IN TUGBOAT MANEUVER IN SUPPORT OF SPM BOUY – FSO/FPSO OPERATIONS***

The course is part of the Tugboat Handling Simulator – Maneuver Training Course, which is recognized by the Nautical Institute for the purposes of Continuing Professional Development (CPD).

### **Objective**

The participant will be competent to demonstrate knowledge, understanding and competence for the control of maneuvers of marine tugboat operations in oil & gas terminal (SPM Bouy, FSO & FPSO) following OCIMF guidelines for single point mooring of tankers .

### **Topics**

- Purpose of the SPM Bouy – FSO / FPSO
- Components of the SPM facilities
- Anchoring system of SPM facilities
- Swivel system
- Preparation of the facility for tanker mooring
- Tanker berthing maneuver to the SPM facility
- Tugboat maneuver to maintain the tanker's position during the offtake operation
- Danger zone of the tanker during the offtake operation
- Operational safety
- Risks associated with berth, positioning, and unberthing maneuvers of the tanker at the SPM facility
- Terminal-tanker-tugboat communication
- Best practices
- Maneuvering exercises in different scenarios at the SPM facility in a NAUTIS / VSTEP simulator



**Course delivered period**

07/07/2026 – 09/07/2026

**Hour duration**

16 hrs.

**Place Issued**

Mexico City, Boluda Training & Simulation Center

**Expiration date**

09/07/2029

**Instructor**

Juan Francisco Márquez Lara  
Registration Mexican Labor Authority (STPS)  
MALJ680920CZ50005

**Director de Operaciones**  
Ing. Jorge Fidel Vivero Troncoso