



A155FM154
Reference number

CERTIFICATE OF COMPETENCE

This certificate is issued to:

EDUARDO ESTUDILLO SANTIAGO

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

05/11/2025 – 07/11/2025

Hour duration

16 hrs.

Place Issued

Mexico City, Boluda Training & Simulation Center

Expiration date

07/11/2028

Instructor

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

Director de operaciones

Ing. Carlos Manuel Jauregui González