CERTIFICATE OF COMPETENCE

This certificate is issued to:

JOSÉ ADALBERTO OJEDA ROMO

For having completed the course:

Training and Maneuvers with a Marine Tugboat in a NAUTIS / VSTEP simulator

Capacitación de Familiarización con las Operaciones de Barco Remolcador Marino

Objective

The participant will be competent to demonstrate knowledge, understanding and competence for the control of maneuvers of marine tugboat operations in port.

Topics

- Types of tugboats
- Thrusters
- Types of propellers
- Maneuverability
- Stability
- Bollard pull
- Towing modalities
- Communication
- Principles of maneuver

Course delivered period
26/11/2025 – 28/11/2025

Hour duration
16 hrs.

Place Issued
Mexico City, Boluda Training & Simulation Center

Expiration date
28/11/2028

Exercises

- Turns at full speed while maintaining the rotation turning point.
- Emergency maneuvers due to failures of the tugboat (propulsion, steering, line, etc.)
- Bow to bow maneuver.
- Maneuver indirect mode and combination of modes.
- Maneuver of moving a large vessel or barge with one or two tugboats.

Director general
Ing. Cristián Ramón Rojas Morales

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

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The Nautical Institute

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