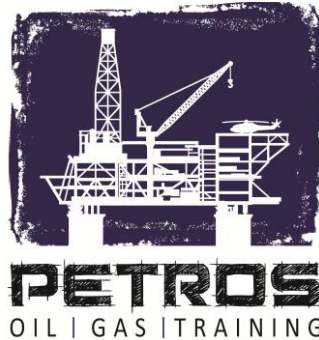


Certificate No : PTR-OFS-LO-WSC-09  
Date : December 20<sup>th</sup> , 2025



# CERTIFICATE OF ACCOMPLISHMENT

This certificate is granted to

**MUHAMMAD IFTIKAR FAJRI**  
ID NUMBER : PTR-WSC-09

For successfully completing  
& finished the Final Project of our Training

## SACS TRAINING – LOAD OUT ANALYSIS

Held at **Wasco Engineering Indonesia** – Batam, Indonesia,  
6 & 7 December 2025, covering the subjects as listed on the back page



Certificate Validation

A handwritten signature in black ink, appearing to read "Heru Prasadja".

**Heru Prasadja, ST**  
Director

# SACS TRAINING - LOADOUT ANALYSIS

## BASIC THEORY

### METHOD OF ANALYSIS

A normal set of conditions:

- All support active.
- A vertical displacement of  $\pm 30$  mm is imposed on each of the 4 supports alternatively.

An extreme set of conditions:

- Each support is successively released:
- A maximum vertical displacement of  $\pm 60$  mm is imposed on each of support alternatively

### STRUCTURAL ANALYSIS

Basic Load Case

- Elementary Load Cases
- Gravity Load
- Variation Of CoG Location
- Displacement Of Support
- Wind Load
- Friction Load

Load Combination

- Full skidway support + Shifting + Wind
- Loss support + Shifting
- Each Support preset 30 mm upward + Shifting+Wind
- Each Support preset 30 mm downward + Shifting + Wind
- Each Support preset 60 mm upward + Shifting+Wind
- Each Support preset 60 mm downward + Shifting + Wind

### LOADOUT ANALYSIS COMPUTER MODELING

- Model and Input Data
- Create Loadout Input File
- Running The Analysis

### ANALYSIS OF RESULTS

- Total Deck Weight, Centre Of Gravity, Support Reactions , Deflection
- API/AISC Member Stress Ratios

### LOADOUT ANALYSIS USING SPMT

### REPORT PREPARATION

### FINAL PROJECT : LOADOUT ANALYSIS OF 103 TONS DECK PLATFORM