Certificate No : 2024-EC-OFS-025-LO
Date : December 24th , 2024

PETROS
OIL | GAS | TRAINING

CERTIFICATE OF ACCOMPLISHMENT

This certificate is granted to

NABIL RAULIA RAHMAN, S.T.,B.Sc.(Eng)
ID NUMBER : EC-OFS-025

For successfully completing 2 days of lesson
& finished the Final Project of our e-Course

OFFSHORE STRUCTURE DESIGN
LOAD OUT ANALYSIS

Held by **Petros Oil Gas Training** – Jakarta
covering the subjects as listed on the back page

Certificate Validation

Heru Prasadja, ST
Director

OFFSHORE STRUCTURE DESIGN - LOADOUT ANALYSIS

BASIC THEORY

METHOD OF ANALYSIS

A normal set of conditions:

- All support active.
- A vertical displacement of ± 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 ± 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
- API/AISC Joint Punching Shear Stress Ratios
- API/AISC Joint Minimum Required Strength Ratios

REPORT PREPARATION

FINAL PROJECT : LOADOUT ANALYSIS OF 1308 TONS DECK PLATFORM