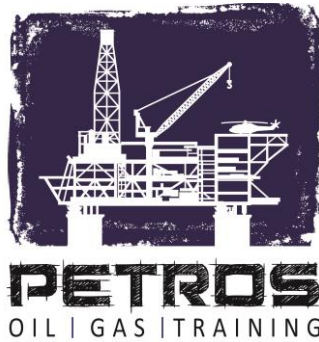


Certificate No : 2024-EC-OFS-LF-013  
Date : July 25<sup>th</sup> , 2024



# CERTIFICATE OF ACCOMPLISHMENT

This certificate is granted to

**RANTO MANGALA TUA IMMANUEL PARDOSI**  
ID NUMBER : EC-OFS-010

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

**OFFSHORE STRUCTURE DESIGN  
LIFTING ANALYSIS**

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



Certificate Validation

A handwritten signature in black ink, appearing to read "Heru Prasadja", written in a cursive style.

**Heru Prasadja, ST**  
Director

# OFFSHORE STRUCTURE DESIGN - LIFTING ANALYSIS

## SUBJECTS

### THEORY

- Design Premises
- Reference Documents
- Method Of Analysis
- Boundary Conditions
- Allowable Stress
- Contingency Factor
- Dynamic Amplification Factor
- Consequence Factor
- Skew Effect
- Rigging Arrangement
- CoG Variation
- Hook Point
- Slings

### LOADING

- Load Definition
- CoG Shift Force Calculation

### LOADING COMBINATION

- Loading Combination Without Consequence Factor
- Loading Combination For Member Connecting To Padeye
- Loading Combination For Member Not Connecting To Padeye

### LIFTING ANALYSIS COMPUTER MODELLING

### ANAYSIS RESULT

- Weight Summary
- Centre Of Gravity
- Maximum Sling Load
- API/AISC Member Stress Ratios
- API/AISC Joint Punching Shear Stress Ratios
- API/AISC Joint Minimum Required Strength Ratios
- Joint Deflection

### LIFTING ANALYSIS REPORT PREPARATION

## **FINAL PROJECT : LIFTING ANALYSIS OF 103 TONS DIESEL DECK PLATFORM**