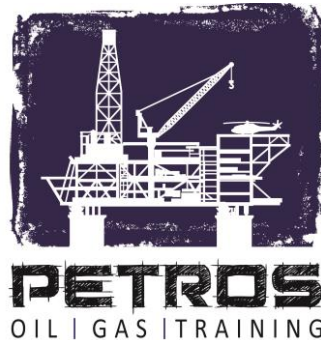


Certificate No : 2022- OFS-062-03-LF

Date : July 20<sup>th</sup> , 2022



# CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

**MAYORA ANDREA UTOMO**

ID NUMBER : OFS-063-03

has completed

**OFFSHORE STRUCTURE DESIGN  
LIFTING ANALYSIS**

Held by **PETROS Oil Gas Training** – Jakarta,  
June 19<sup>th</sup> & 21<sup>st</sup> , 2022, 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 STORAGE PLATFORM