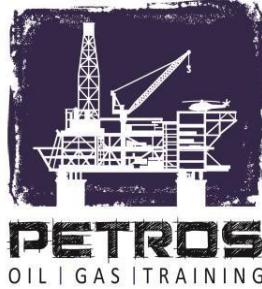




**Kampus  
Merdeka**  
INDONESIA JAYA

**MSIB**  
magang dan studi independen bersertifikat

Certificate No : 2023-PTR-LIFT-MSIB4-G4-17  
Date : June 30<sup>th</sup> , 2023



# CERTIFICATE OF ACCOMPLISHMENT

This certificate granted to  
**MUHAMMAD ERZA AGUSTIAN**  
SIB ID : 5620638

For successfully completing the training (240 hours)

## **FIXED OFFSHORE PLATFORM DESIGN LIFTING ANALYSIS**

Held by **PETROS Oil Gas Training &  
Ministry of Education and Culture Research and Technology of Republic of Indonesia**  
at **Kampus Merdeka Studi Independen Bersertifikat Program**

And meet all requirements with score:

**91.00**

of 100 points



Certificate Validation  
Validation Through  
30/06/2025

**Petros Oil Gas Training**  
(PT. INDONESIA LEBIH ANDAL PROFESIONAL)

**Heru Prasadja, ST**  
Director

# FIXED OFFSHORE PLATFORM 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 FOR 103 TONS DIESEL STORAGE PLATFORM