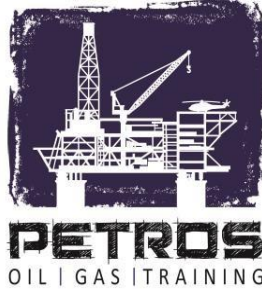




**Kampus
Merdeka**
INDONESIA JAYA

MSIB
magang dan studi independen bersertifikat

Certificate No : 2023-PTR-LIFT-MSIB4-G2-06
Date : June 30th , 2023



CERTIFICATE OF ACCOMPLISHMENT

This certificate granted to
ARMAN TONAPA
SIB ID : 5601387

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:

73.00

of 100 points

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

Heru Prasadia, ST
Director



Certificate Validation
Valid Through
30/06/2025

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