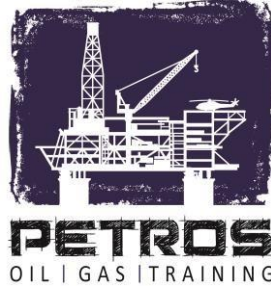




**Kampus  
Merdeka**  
INDONESIA JAYA

**MSIB**  
magang dan studi independen bersertifikat

Certificate No : 2023-PTR-FOPD-MSIB4-G1-23  
Date : June 30<sup>th</sup> , 2023



# CERTIFICATE OF ACCOMPLISHMENT

This certificate granted to  
**SAMUEL BUDI DEFRIANTO**  
SIB ID : 5665952

For successfully completing the training (240 hours)

## FIXED OFFSHORE PLATFORM DESIGN INPLACE 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:

**83.00**

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-INPLACE ANALYSIS

## SUBJECTS

### INTRODUCTION TO OFFSHORE STRUCTURES

#### FIXED OFFSHORE PLATFORM COMPUTER MODELLING

- Joint Modelling
- Joint Fixity
- Joint Design
- Member Modelling
- Member Releases
- Member Properties
- Member Group
- Member Offsets
- Modelling Wishbone
- Modelling X brace

#### LOADING

- General Loading
- Joint load
- Member load
- Inertia Load
- Member area & Plate area Loads
- Simulation of Non - modelled load (Anode, Walkway, stairs etc)

#### ENVIRONMENTAL LOADING

- Wind Loads
- Hydrodynamic Coefficients
- Wave & Current loadings
- Marine growth Load
- Corrosion allowance

#### ANALYSIS

- Load Combination
- Allowable stress modification factor
- Unity check partition factor
- Code check

#### POST PROCESSING

- Output listing file
- Member review and redesign

#### JOINT CAN ANALYSIS

- Preparation of Joint can file
- Interpretation of Joint can results

#### PILE SOIL INTERACTION

- Creation of PSI input file
- Interpretation of results