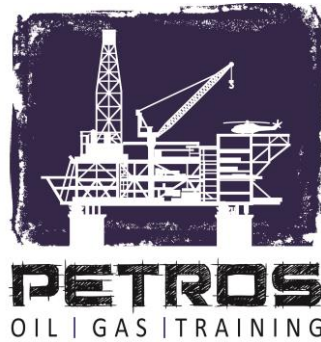


Certificate No : 2022-PTR-FOPD-INP-002-01
Date : October 4th , 2022



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

ROY ANTONI RAHARDJO, M.Sc
ID NUMBER : FOPD-002-01

has completed our training

**FIXED OFFSHORE PLATFORM DESIGN
INPLACE ANALYSIS**

Held by **PETROS Oil Gas Training** – Jakarta,
22nd to 30 September , 2022, covering the subjects as listed on the back page



Certificate Validation

A handwritten signature in black ink, appearing to read "Heru Prasadja".

Heru Prasadja, ST
Director

FIXED OFFSHORE PLATFORM DESIGN - INPLACE ANALYSIS

INPLACE ANALYSIS THEORY

INPLACE ANALYSIS COMPUTER MODELING

- Define Splash Zone, Minimum & Maximum Water Depth, Air Gap
- Define Jacket & Deck Dimension & Leveling
- Jacket & Deck Frame modelling
 - *Jacket Leg & Pile*
 - *Conductor*
 - *Vertical & Horizontal Bracing*
 - *Main Deck & Cellar Deck Frame*
- Define Steel Section
- Corrosion Allowance
- Define Member Group
- Define Member Offset
- Define Effective Length
- Define Span Member
- Define Splash Zone, Minimum & Maximum Water Depth
- Define Drag & Mass Coefficient (Cd & Cm)
- Define Marine Growth
- Define Of Loadings on Platform (Structure, Mechanical, Piping, EI, WOR, Crane, etc)
- Define Of Seastate Loadings (Current, Wind, Wave)
- Provisions, Contingencies Load Factor
- Define Operating & Extreme Loading Combinations (Minimum & Maximum Water Depth)
- Increased Allowable Stress
- Unity Check Part
- Setting Inplace Analysis Option

SOIL DATA

- Preparation Of Soil Input Data (P-Y, T-Z, Q-Z)

CHECK RESULTS AS PER API RP 2A WSD 21ST & AISC 360-16

- API/AISC Member Stress Ratios
- API/AISC Joint Punching Shear Stress Ratios
- API/AISC Joint Minimum Required Strength Ratios
- Deflections Checks
- Piles Axial Capacity And Unity Check

ANALYSIS REPORT PREPARATION