Certificate No : 2026–PTR-FOPD-INP-080
Date : October 10h , 2026

PETROS
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# CERTIFICATE OF ACCOMPLISHMENT

This certificate granted to

## AL ISNA FATHURROHI

**ID NUMBER : FOPD-INP-080**

For successfully completing
& finished the Final Project of our e-Course

## FIXED OFFSHORE PLATFORM DESIGN INPLACE ANALYSIS

Held by **Petros Oil Gas Training** – Jakarta
covering the subjects as listed on the back page

Certificate Validation

**Heru Prasadja, ST**
Director

**WWW.OILGAS-TRAINING.COM**

# 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

## FINAL EXAMS : **Inplace Analysis For Fixed Offshore Platform (4 Leg, 79 M Water Depth)**