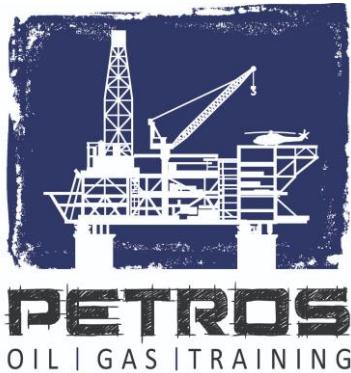


Certificate No : 2025-PTR-EC-SPRD-035  
Date : December 2<sup>nd</sup> , 2025



# **CERTIFICATE OF ACCOMPLISHMENT**

This is to certify that  
**MUHAMMAD ZIDANE FATURROHMAN**  
**ID NUMBER : PTR-EC-SPRD-035**

has completed 32 hours & finished the Final Project of our e-course

## **STEEL STRUCTURE DESIGN FOR OIL GAS/INDUSTRIAL PLANT**

Held by **PETROS OIL GAS TRAINING**, Jakarta  
covering the subjects as listed on the back page



Certificate  
Validation



**Heru Prasadja, ST**  
Director

# STEEL STRUCTURE DESIGN FOR OIL GAS/INDUSTRIAL PLANT

## SUBJECTS :

### A. INTRODUCTION TO OIL GAS/INDUSTRIAL PLANT PROJECT

- General Layout Plan
- Scope of Work of Civil Engineer in Project
- Technical Specification
- Standard Codes , AISC, UBC, ASCE & SNI

### B. STEEL STRUCTURE DESIGN FOR OIL GAS/INDUSTRIAL PLANT (STAAD PRO)

- Structural Modelling for Steel Pipe Rack, 36 m (L) x 5 m (W) x 9 m (H), 2 level Making Generate Model
  - Release & Truss Member
  - Offset Member
  - Support
  - Effective Length
  - Unbraced Length
  - K factor
  - Lateral Torsional Buckling
  - Fy
- Material Properties
- Loadings
  - Dead Load
  - Pipe Load
  - Equipment Load
  - Live Load
  - Friction Load
  - Anchor Load
  - Wind Load
  - Seismic Load as SNI 1726-2019/ASME 7-16
- Load Combinations
  - Operation Condition
  - Test Condition
- Running Model
- Analysis Result
  - Member Design
  - Deflection
  - Material Take Off
- Design Report

### C. FINAL PROJECT

Steel Pipe Rack, dimension 71 m (L) x 8 m (W) x 9 m (H), 2 level