



Certificate No : 2023-PTR-SPRD-MSIB4-G3-21

Date: June 30th, 2023



CERTIFICATE OF ACCOMPLISHMENT

This certificate granted to

RAHMAWATI

MSIB ID: 5428627

For successfully completing the training (210 hours)

STEEL STRUCTURE DESIGN FOR OIL GAS/INDUSTRIAL PLANT

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)



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
 - o Release & Truss Member
 - Offset Member
 - Support
 - o Effective Length
 - Lateral Torsional Buckling
 - o K factor
 - Material Properties
- Loadings
 - o Pipe Load
 - Equipment Load
 - o Live Load
 - o Friction Load
 - Anchor Load
 - Wind Load
 - Seismic Load
- 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