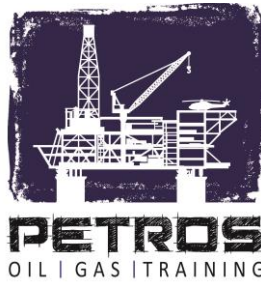


Certificate No : 2020-PTR-LE-005-04
Date : September 8th , 2020



CERTIFICATE OF ACCOMPLISHMENT

This Certificate granted to

MUHAMAD ZAKARIA RAZIANTO

ID NUMBER : PTR-LE-005-04

For its success for completing the training

LIFTING/RIGGING ENGINEER

And meet all requirements with score:

94

of 100 points

Trainer :

TAUFIQURRAHMAN, ST

Certified Advanced Rigging Engineer - CA 90722 Wood Group

Held by **Petros Oil Gas Training** – Jakarta
September 5th & 6th , 2020 , covering the subjects as listed on the back page



Valid Through : September , 8th , 2022

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

Heru Prasadja, ST
Director

LIFTING/RIGGING ENGINEER TRAINING

SUBJECTS :

- Basic Rigging
- Comprehensive Kinds of Wire Sling To Be Used For Lifting
- Wire Sling Using Methods
- Comprehends and Know Angle & Load Factor of Lifting
- Comprehends Formula for SWL/WLL & Load Calculation
- Comprehensive Kinds of Lifting Accessories
- Ascertain of General Lifting Procedure and Related Government Regulation for Lifting
- Qualifications of An Advanced Rigging
- Planning & Preparation
- Lift Plans for Dual Lifts
- Load Equalizing Gear
- Purchases
- Rigging of Cranes & Hoists
- Determine Center of Gravity
- Multi-Crane Lifts
- Shear Legs
- Flying Foxes & Cable Ways
- Towing, Dragging Loads

STUDY CASE : Lifting 61.4 T Modular Structure Above River

EXAMINATION : PASSED