

OIL I GAS ITRAINING

CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

ID NUMBER: PTR-OFE-001-05 **PETRUS WELDARSO**

has completed

OFFSHORE STRUCTURE TRANSPORTATION & INSTALLATION METHOD

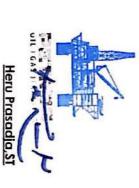
TRAINING

Held by PETROS OIL GAS TRAINING - Jakarta, August 31st to September 1st, 2019 covering the subjects as listed on the back page



Senior Offshore Installation Engineer Yosua Mangngallo, ST

Director



Certificate No: Date:

> September 1st , 2019 2019-PTR -OFE- 001-05

OFFSHORE STRUCTURE TRANSPORTATION & INSTALLATION METHOD - TRAINING

											Ta		J		3.1.3.8 Suitability With Installation Methods	3.1.3.7 Suitability With Loadout	3.1.3.6 Draught & Trim	3.1.3.5 Cargo On Motion Response	3.1.3.4 Stability	3.1.3.3 Barge Strength	3.1.3.2 Deck Space	3.1.3.1 Availability	3.1.3 Cargo Barge Selection	3.1.2 Cargo Barge Components	3.1.1 Common Transportation Configuration 4.2	3.1 Dry Tow / Cargo Barge Towing	3 TRANSPORTATION			2.2 Role of MWS	2.1 What is Marine Warranty Surveyor	2 MARINE WARRANTY SURVEYOR	1 ELEMENTS OF PLATFORM
5.7 Other Methods	5.6 Installation Aids	5.5.3 On-Bottom Stability	5.5.2 Docking	5.5.1 Positioning	5.5 Jacket Set Down	5.4.4 Upending Analysis	5.4.3 Self Upending	5.4.2 2 Blocks Upending	5.4.1 Upending From Free Floating	5.4 Jacket Upending	5.3 Jacket Free Floating	5.2.4 Launching Analysis	5.2.3 Launching Equipments	5.2.2 Launching Barge	ls 5.2.1 Type Of Jacket Launching	5.2 Jacket Launching	5.1.3 Lift Calculation	5.1.2 Vertical Litting		Jac	=		4.4 Mooring Analysis		1 4.2 Defining Anchor Pattern	4.1.6 Crossing Elements	4.1.5 Anchors	4.1.4 Chain	4.1.3 Wire Rope	4.1.2 Fairleader	4.1.1 Mooring Winches	4.1 Elements Of Mooring	4 WORKING BARGE MOORING / ANCHOR PATTERN
	8.4 Other Parts Of Topside	8.3 Versa Truss Method	8.2 Float Over Method	8.1 Lifting Method	8 INSTALLATION - TOPSIDE		7.5 Other Typical Offshore Installed Items	1	7.4 Transition Pieces	7.3 Drill Deck	~		800			7 INSTAILATION - SUBSTRUCTURE APPURTENANCES	0.00		P:				6.4.2 Analysis	3	6.4 Pile Driving	Pile	6.2.4 Simplest	6.2.3 Stabbing			7		6 INS

Certificate No: 2019-PTR-LE-001-08

Date: October 21st , 2019



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

PETRUS WELDARSO

ID NUMBER: PTR-LE-001-08

has completed

LIFTING/RIGGING ENGINEER TRAINING

Trainer:
TAUFIQURRAHMAN, ST

Certified Advanced Rigging Engineer - CA 90722 Wood Group

Held by **Petros Oil Gas Training** – Jakarta

October 19th to 21st , 2019, covering the subjects as listed on the back page

Heru Prasadja, ST

www.oilgas-training.com

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

EXAMINATION: PASSED



Petrus Weldarso

Has successfully completed

Training
Understanding and Implementing
ISO 45001:2018

Held on October 12th, 2019 at Universitas Indonesia Jawa Barat - Indonesia

Ir. Indra Kurniadi, M.M.

Managing Director

Certificate Serial Number: 0HS38190108



Petrus Weldarso

Has successfully completed

Training ISO 31000:2018 Risk Management

Held on October 12th, 2019 at Universitas Indonesia Jawa Barat - Indonesia

Ir. Indra Kurniadi, M.M.

Managing Director

Certificate Serial Number: ISO09190052



Petrus Weldarso

Has successfully completed

Training
Understanding and Implementing
ISO 9001:2015

Held on October 5th, 2019 at Universitas Indonesia Jawa Barat - Indonesia

Ir. Indra Kurniadi, M.M.

Managing Director

Certificate Serial Number: ISO01190117



Petrus Weldarso

Has successfully completed

Training
Implementation ISO 27001:2013
Information Security Management System

Held on October 5th, 2019 at Universitas Indonesia Jawa Barat - Indonesia

ALS

Ir. Indra Kurniadi, M.M.

Managing Director

Certificate Serial Number: ISO07190037