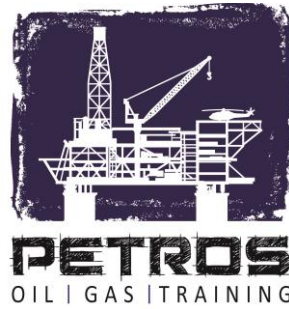


Certificate No : 2022-PTR-ECMS-021

Date : July 30<sup>th</sup> , 2022



# CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

**LUTHFI WIGGI AVIANTO**

ID NUMBER : PTR-ECMS-021

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

## COMMISSIONING MANAGEMENT

**TRAINER :**

**I Putu Sukmayasa – Commissioning Manager EPC**

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



Certificate Validation

A handwritten signature in black ink, appearing to read "Heru Prasadja", written in a cursive style.

**Heru Prasadja, ST**

Director

# COMMISSIONING MANAGEMENT

## SUBJECTS :

- Introduction of Pre Commissioning & Commissioning
- Organization & Discipline in Commissioning
- Commissioning Planning
- Tools, Test Equipment and Consumables
- System & Subsystem Identification
- System Markup Drawing
  - P&ID
  - Instrument Control
  - Single Line Diagram
  - General Procedure & Operation Test
- Mechanical Completion
- MC Walkdown & Punch List Categorize
- Static Commissioning
- Dynamic Commissioning
- CMS Software Overview, System Subsystem & Commissioning Deliverable List
- Commissioning Check Sheet & Procedure
- Commissioning Execution
- Completion Certificate & Commissioning Hand Over
- Minimum Document to be Prepared
- Piping Test Package
- Work Package Leak Test
- Work Package Instrument/Electrical/Telecom
- Work Package Mechanical
- Structure Building/Civil (road/pavement)
- Pipe Line Work Pack

## FINAL PROJECT