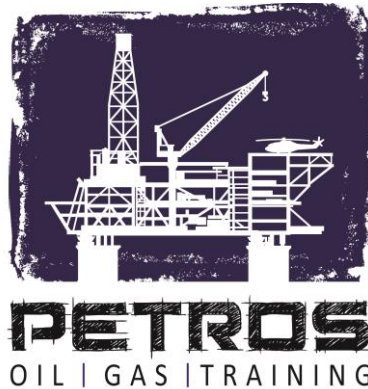


Certificate No : 2024-PTR-PDX-021-01

Date : October 3<sup>rd</sup> , 2024



# CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

**MUKLAS BAGAS SAPUTRA**  
ID NUMBER : PDX-021-01

has completed

## PIPING DRAFTING TRAINING

Held by **Petros Oil Gas Training** – Jakarta, Indonesia  
July 20<sup>th</sup> to September 30<sup>th</sup> , 2024, 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

# PIPING DRAFTING TRAINING

## SUBJECTS :

### BASIC CAD

### MECHANICAL DRAFTING

### PIPING DRAFTING

- Overview of Pipe Drafting & Design
- Pipe Components
  - Steel Pipes
  - Pipe Fittings
  - Flanges
  - Valves
- Code & Piping Specification
- Process Flow Diagram (PFD)
- Piping & Instrumentation Diagram (P&ID)
- Mechanical Equipment Drawing
- Equipment Layout
- Piping Layout , Section & Elevation Drawing
- Standard Piping Details
- Pipe Isometric Drawing
- Pipe Supports
- Pipe Material Take Off (MTO)

### FINAL PROJECT : COMPLETED