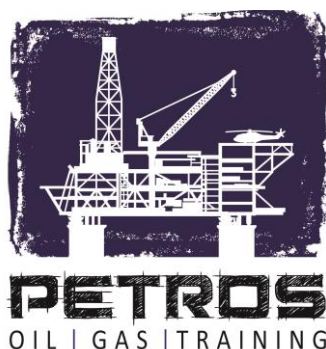


Certificate No : 2022-PTR-POR-WIKA-011

Date : March 29th , 2022



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

MUHAMMAD NURDIN MUCHLISH

has completed training

PROCESS OIL REFINERY

TRAINER :

IR. DARU WIRYONO, IPU – PRINCIPAL PROCESS ENGINEER

Held by **Petros Oil Gas Training** on March 1st ,2nd ,8th ,9th & 29th , 2022
covering the subjects as listed on the back page



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

Heru Prasadja, ST
Director

PROCESS OIL REFINERY TRAINING

SUBJECTS :

- Overall Process Refinery
- Type of Pertamina Oil Refinery & the difference between RU1 to RU 5
- Overall Process Residual Fluid Catalytic Cracking RFCC
- Overall Process Naphtha Hydrotreater
- Program Langit Biru / Bluesky Cilacap & Balongan
- Licensor Technology
- Refinery Layout
- Desalter
- Crude Distillation
- Fractionation
- Stabilization
- Reflash & Packed Column
- Depropanizer
- Debutanizer
- Flare
- Utility Power Generation