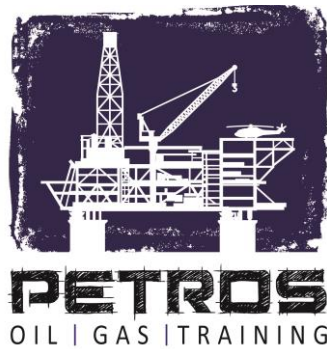


Certificate No : 2022-PTR-FPSD-WIKA-009

Date : March 29th , 2022



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

HARAPAN ARYTO SALOM FERDINAND

has completed training

FIRE PROTECTION SYSTEM DESIGN & ENGINEERING

TRAINER :
MERIZAL, SKM
PRINCIPAL FIRE SAFETY ENGINEER

Held by **Petros Oil Gas Training** on March 28th & 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

FIRE PROTECTION SYSTEM DESIGN & ENGINEERING

SUBJECTS :

- Introduction fire engineering and system design
- Fire risk assessment
- Active fire protection system design
 - Portable fire extinguisher system (NFPA 10)
 - Fire hydrant, hose reel, fire monitor (NFPA 14)
 - Water spray system (NFPA 15)
 - Foam system (NFPA 11)
- Fire pump system design (NFPA 10)
- Sprinkler system design (NFPA 13)
- Fire alarm and gas detection system (NFPA 72)
- Passive fire protection
- Fire proofing design (API 2218)
- Inspection, testing, and maintenance fire water system (NFPA 25)