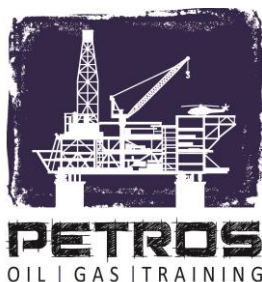


Certificate No : 2024-PTR-ETP-01-03

Date : May 14th , 2024



CERTIFICATE OF ACCOMPLISHMENT

This certificate is granted to

SALSABILA TRI GUMELAR

ID NUMBER : PTR-ETP-01-03

For successfully completing the training (via zoom)

**POWER SYSTEM STUDY FOR OIL GAS PLANT
BY USING ETAP**

Trainer :

RULLY FAJRI, S.T

Senior Electrical Engineer

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

May 4th, 5th & 11th , 2024, covering the subjects as listed on the back page



Validation Check


Heru Prasadia, ST
Director

POWER SYSTEM STUDY FOR OIL GAS PLANT BY USING ETAP

SUBJECTS :

ETAP INTRODUCTION & SINGLE LINE DIAGRAM MODELLING

- Etap Toolbar
- Etap Library
- Etap Element
- Etap Standard IEC & ANSI
- Single Line Modelling

ETAP LOAD FLOW

- Basic Theory Loadflow
- Load Flow Toolbar & Function
- Analysis Loadflow & Alerts
- Cable Sizing
- Equipment Sizing
- Report Load Flow

ETAP MOTOR ACCELERATION STUDY

- Basic Theory Motor Acceleration
- Motor Acceleration Toolbar & Function
- Motor & Load Modelling
- Starting Device
- Analysis Motor Static & Dynamic
- Report Motor Acceleration Study

ETAP SHORT CIRCUIT STUDY

- Basic Theory Short Circuit 3phase, Phase To Ground, Phase-To-Phase
- Short Circuit Toolbar & Function
- Sizing For Short Circuit Equipment Rating
- Analysis Short Circuit IEC & ANSI
- Report Short Circuit

ETAP PROTECTION & COORDINATION STUDY

- Basic Theory Protection & Coordination
- Star Toolbar & Function
- Time Current Curve Modelling
- Protection Relay Setting & Coordination
- Simulation Relay Coordination
- Report Protection Device Setting

CASE STUDY :

- Modelling SLD
- Load Flow Exercise
- Motor Study Exercise
- Short Circuit Exercise
- Relay Protection & Coordination Exercise

FINAL PROJECT: SYSTEM STUDY REPORT ETAP FOR LPG STORAGE FACILITY PROJECT