

# 01. 11KV SUBSTATION MAINTENANCE & TESTING

COURSE CODE : SMT11 || 4 DAYS

This course provides essential knowledge of primary and secondary substation equipment, focusing on maintenance, testing, and safe operation. Participants will gain practical exposure to testing 11kV switchgear, transformers, protection relays, and battery chargers, as well as basic analysis of test results in accordance with relevant standards.

## COURSE CONTENT

- Introduction to 11kV distribution power system & 11kV substation
- Primary Equipment in 11kV substation (Rating, specification, Role & Importance of Switchgear, Transformer , Power Cable & Feeder Pillar)
- Secondary Equipment in 11kV substation (Rating, specification, Role & Importance of Protection Relay, Measurement Device & Battery Charger)
- Maintenance 11kV Power Cable
- Maintenance on 11kV Switchgear
- 11kV Switchgear Testing and analyse test result
- Maintenance on 11kV Transformer
- Testing 11kV Transformer and analyse test result
- Maintenance on battery charger and testing battery charger
- Testing & Troubleshooting Protection Relay & Measurement Device
- Fill the data in Testing Form (Borang H)

## RECOMMENDED FOR

- Electrical Service Engineer (JPE) candidate
- Electrical Competent Engineer (JEK) candidate
- Testing Engineer
- Electrical Engineer
- Tester (Protection)
- Technician
- Chargeman