

05. PRACTICAL TESTING FOR MEDIUM VOLTAGE PROTECTION RELAY

COURSE CODE : 33PPSP || 3 DAYS

This course covers unit and non-unit protection schemes, focusing on the principles and operation of protection relays in electrical power systems. Participants will learn fault types, protective devices, relaying schemes, system coordination, and gain practical exposure to protection relay testing up to 11kV, including an understanding of relay operation based on system design.

COURSE CONTENT

- Understand operation protection system & protection relay device on single line diagram
- Overcurrent & Earth Fault (OCEF) Protection Relay
- Introduction to CMC356 & Omicron Software
- Testing & calibration for OCEF Protection Relay
- Understand concept of Differential relay, Standby Earth Fault Relay, Bias Differential Relay,
- Stability testing for Differential relay, Standby Earth Fault Relay
- CT arrangement and location for cable / overhead feeder for Differential Relay
- Transformer guard, CT & VT locations for transformer feeder for REF & Bias Differential Relay
- Testing & Calibration for Differential relay, Standby Earth Fault Relay, Bias Differential Relay,
- Restricted Earth Fault Relay
- Current transformer & Voltage Transformer Testing
- Testing for metering & CT Ratio calculations

RECOMMENDED FOR

- 11kV Electrical Competent Engineer (JEK) candidate
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- Chargeman A4
- Chargeman B0 11kV candidate
- Engineer & Technician