

ASSESSMENT STEPS FOR PROTECTION ENGINEER

Power System Principles

Short Circuit /Fault level etc.

Principles of Instrument Transformers

(CTs, VTs), Metering

Feeder / Cable Protection:

- a. Non dir. O/C & E/F relays
- b. Dir. O/C & E/F relays
- c. Distance Relays
- d. Pilot Wire Protection
- e. Current Differential relays

Transformer Protection:

- Biased Differential relays
- REF relays
- Transformer Main Protection

Transformer Testing:

- Ratio/Vector Group
- Transformer Stability
- REF stability

Bus Bar Protection:

High / Low impedance
Stability

ASSESSMENT STEPS FOR TESTING ENGINEER

Testing Instrument Transformers

(CTs, VTs), Metering

Testing Feeder / Cable Protection

- a. Non dir. O/C & E/F relays
- b. Dir. O/C & E/F relays
- c. Distance Relays
- d. Pilot Wire Protection
- e. Current Differential relays

Testing Transformer Protection

- Biased Differential relays
- REF relays
- Transformer Main Protection

Transformer Testing

- Ratio/Vector Group
- Transformer Stability
- REF stability

Bus Bar Protection

High / Low impedance
Stability