

Assessment Criteria

Authorization Level	Level IV	Level III	Level II	Level I
Required for	Protection Engineer	T&C engineer (Grade A contractor)	T&C engineer (Grade B contractor)	Assistant T&C engineer
Written Exam				
Area Coverage	Protection setting, calculation and sizing	Basic principle of all relays testing and commissioning	Basic principle of specific relays testing and commissioning and power system basic principles	Power system basic principles
Interview Assessment				
Power System Principles, short circuit / Fault level etc.	✓			
Instrument Transformers (CTs/VTs), metering, trip circuits	✓	✓	✓	✓
Feeder/ Cable Protection:				
a. Non DOC& EF Relays	✓	✓	✓	
b. DOC & EF Relays				
c. Distance Relays	✓	✓		
d. Pilot wire protection	✓	✓		
e. Current differential relays				
Transformer Protection				
a. Biased Differential Relays	✓	✓		
b. REF Protection Relays				
c. Transformer Main Protection				
Transformer Testing				
a. Ratio/Vector Group	✓	✓	General transformer testing	
b. Transformer Stability				
c. REF stability				
Bus Bar Protection High/Low impedance stability	✓	✓		
Practical Assessment				
Relay Wiring and test kit connections	✓	✓	✓	
Relay Communication & Configuration	✓	✓	✓	
Relay setting	✓	✓	✓	


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