## PEA Assessment Criteria

## DCRP

The Assessment for both Protection engineer and Protection testing & commissioning engineer is having two types: Interview and practical test. The following table shows the content of each type for each engineer.

Criteria	Content	Protection Engineer	Protection Testing & Commissioning Engineer	
	Intervie	w Assessment		
Power System	Short Circuit, Fault			
Principles	level, Relay settings,			
	Relay coordination,	$\checkmark$	×	
	equipment sizing,			
	etc.			
Principles of	Current			
Instrument	transformer,	$\checkmark$	$\checkmark$	
Transformers	Voltage transformer			
Feeder / Cable	Non dir. O/C & E/F			
Protection	relays, Dir. O/C &			
	E/F relays, Distance	$\checkmark$	$\checkmark$	
	Relays, Pilot Wire			
	Protection, Current			
	Differential relays			
Transformer	Biased Differential	,	,	
Protection	relays, REF relays,	$\checkmark$	$\checkmark$	
	Transformer Main			
	Protection			
Transformer	Ratio/Vector Group,	<i>,</i>		
Testing	Transformer	$\checkmark$	✓	
	Stability, REF			
	stability			
Bus-Bar	High / Low	/		
Protection	impedance Stability	✓	✓	
Practical Test Assessment				
Relay Wiring	1. CT/ VT	1		
and test kit	connections for	$\checkmark$	✓	
connections	the given			
	protection relay,			

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Rev.01: July, 2014

Criteria	Content	Protection Engineer	Protection Testing & Commissioning Engineer
	2. testing		
	connections		
	between the		
	relay and the		
	test kit		
Relay	1. To download /		
Communication	upload the settings		
& Configuration	from/to the relay	$\checkmark$	$\checkmark$
	2. To program the		
	relay for the given		
	protection settings		
Relay testing	To test the relay for		
	the given protection	$\checkmark$	$\checkmark$
	settings		

## Remarks:

- 1. The minimum score to pass both tests is 70 %.
- 2. Practical test shall be conducted after passing the interview test.
- 3. In the practical test, the relay will be given to the candidate. The candidate shall bring the relay test kit (6 currents) for his choice make. He shall come with the laptop with relay communication software.
- 4. For both tests, candidate shall bring his own calculator.
- 5. As per the process mapping, the practical test is normally set within two weeks after interview exam.
- 6. For practical test, candidate may expect any relay make installed in the system. Normally, one of the three functions will be given: Directional overcurrent protection, Distance protection or Transformer Differential protection.