


LEP ASSESSMENT REVIEW

Candidate Name: _____

Assessment Date: _____

Assessment Venue:  MELBOURNE
POLYTECHNIC

Final Mark: _____

Note: Only marks deducted are indicated on this paper review. If there is no indication of an error or omission, full marks were awarded for that section.

Question 1: Meter Panel and Switchboard Wiring

1. Design of the installation (information provided by candidate on page 7 of the paper)	
	Incorrect standard/table/column used for cable selection of mains, sub main, three phase load and single phase loads (cross out not applicable)
	Total MD of the installation (highest loaded phase) incorrect
	Current rating of main switch less than the maximum demand, but mains cable protected
	Mains cable not protected by main switch/circuit breaker
	Incorrect size mains cable
	Main earth conductor size incorrect
	Total MD of the distribution board incorrect
	Current rating of distribution board sub-main circuit protection less than the maximum demand, but sub-main cable protected.
	Sub-main cable not protected by distribution board sub-main circuit protection
	Incorrect size sub-main cable
	Units in tables omitted or incorrect
2. Incorrect installation wired	
	The type of supply installed does not match the installation requested
3. Underground Pit	
	Address label not on the U/G cables
	Address does not include house number or street (cross out not applicable)
4. Fused Mains Box	
	Consumer mains actives/neutral not installed as per manufacturer instructions
	Consumer mains reverse polarity active/neutral
5. Meter panel	
	Meter panel bypassed
	Meter panel fuses installed with O/H consumer mains
	Meter panel fuses incorrectly wired (no protection provided) or fuses omitted.
	Meter panel fuses not as per SIR in relation to line/load
	Phase sequence not as per SIR requirements
	Line and load actives not installed as per SIRs - meter panel wiring requirements
	Active colour conductor used as meter neutral
	Meter neutral not installed, or undersize

	Meter neutral not in accordance with SIR requirement and minimum size requirement
	Consumer mains incoming neutral not connected under clamp terminal
	Neutral Link not used
6. Cable Tie	
	All cables entering or leaving the hinged meter panel not under cable tie and tied to the meter panel
	Cable tie installed but too loose to stop cables from having undue stress placed on them.
7. Address Label on Meter Panel	
	Address label does not include house no, street, and suburb
	Address label not provided on the meter panel as per SIR requirement
8. Underground Details	
	Underground cable location diagram not provided
	Underground cable location diagram & details not provided as per instructions or incomplete. (cross out not applicable) *Pit location / meter panel location *Cable route *Measurements as per paper for accuracy
9. MEN Connection	
	MEN link not installed
	MEN link under size
	MEN link and main neutral on neutral bar not in positions specified in the Wiring Rules and not labelled
10. Main Earth installation	
	Excess earthing conductor is provided at the end of the conduit adjacent to the earth electrode, and/or earth conductor not cable tied to electrode.
	No earth clip used / earth clip not installed as per standard work practice
	Switchboard frame not earthed
	No main earth conductor installed
	Incorrect main earth size
	Earth electrode location not identified at the main switchboard
	"Do not disconnect" tag not installed as per the WR requirements.
11. Main Switch - Overload protection on consumers mains	
	Overload protection not provided for mains
	Main switch incorrect rating

12. Distribution Board – Isolator, Sub-mains and Protection	
	Overload protection not provided for sub-mains
	Distribution board isolator not provided as per instructions, but sub-mains protected
	Incoming neutral on distribution board into earth terminal on the neutral bar
13. Labelling	
	Main switch not labelled as a main switch
	Distribution Board circuit protection device on MSB labelled Main Switch
	Distribution board isolator on distribution board labelled as Main Switch
	FSC load labels omitted or incorrect Indicate which circuit:
	RCD not labelled to indicate what it controls
	MSB not labelled 'Main Switchboard' on a non-domestic installation
14. Switchboard wiring and F.S.C. cables & connections	
	Incorrect number of FSC neutrals
	Incorrect number of FSC earths
	FSC active/s omitted Indicate which circuit:
	Incorrect neutral sequencing
	Incorrect cable/s used within the switchboard wiring Indicate which cables:
	Incorrect colour of outgoing FSC earths / neutrals
	FSC circuit protection insufficient to carry load Indicate which circuit:
	FSC cable not protected by circuit protection Indicate which circuit:
	FSC active oversize Indicate which circuit:
	Neutral incorrect size in relation to corresponding active Indicate which circuit:
	RCD protection not installed or RCD/s not wired to operate correctly Indicate which circuit:

	MEN situation created at distribution board
	Three phase load FSC cables unterminated
15. Access to live parts	
	Main switchboard escutcheon plate missing / Distribution Board cover not securely closed
	FOLCB cover missing
	Pole fillers missing
	Neutral link cover not installed
	Meter panel not closed
	3 phase load cover not installed
16. Extra components / circuit supplied and / or omitted and not already penalised	
	Extra circuit provided or omitted
	Using an RCD/MCB combo PLUS MCBs
17. Other Defect (not listed above)	
	Unsafe defect not listed above
	Non-compliant defect not listed above:

Total Marks LOST for Question 1

Total Marks awarded for Question 1

Question 2: Electrical Installation Testing

2.1 Resistance of Main Earth and Bonding Conductors	
	Main Earthing Conductor reading incorrect
	Main Earthing Conductor pass/fail result incorrect
	Bonding conductor to water pipe reading incorrect
	Bonding conductor to water pipe pass/fail result incorrect
	Missing or incorrect unit/s
2.2 Insulation resistance of wiring	
	Whole installation reading incorrect
	Whole installation pass/fail result incorrect
	Circuit 1 reading incorrect
	Circuit 1 pass/fail result incorrect
	Circuit 2 reading incorrect
	Circuit 2 pass/fail result incorrect
	Circuit 3 reading incorrect
	Circuit 3 pass/fail result incorrect
	Circuit 4 reading incorrect
	Circuit 4 pass/fail result incorrect
	Missing or incorrect unit/s
2.3 Earthing and insulation resistance of appliance	
	Earthing of Exposed Metal reading incorrect
	Earthing of Exposed Metal pass/fail result incorrect
	Insulation Resistance reading incorrect
	Insulation Resistance pass/fail result incorrect
	Missing or incorrect unit/s
2.4 Resistance of Protective Earthing Conductors	
	Circuit 1 reading incorrect
	Circuit 1 pass/fail result incorrect
	Circuit 2 reading incorrect
	Circuit 2 pass/fail result incorrect
	Circuit 3 reading incorrect
	Circuit 3 pass/fail result incorrect
	Circuit 4 reading incorrect
	Circuit 4 pass/fail result incorrect
	Missing or incorrect unit/s

2.5 Polarity test of consumers mains	
	Active reading incorrect
	Active pass/fail result incorrect
	Neutral reading incorrect
	Neutral pass/fail result incorrect
	Missing or incorrect unit/s
2.6 Operation of Switches	
	Ceiling Rose reading incorrect
	Ceiling Rose pass/fail result incorrect
	Fluorescent Luminaire reading incorrect
	Fluorescent Luminaire pass/fail result incorrect
	Socket Outlet 1 reading incorrect
	Socket Outlet 1 pass/fail result incorrect
	Socket Outlet 2 reading incorrect
	Socket Outlet 2 pass/fail result incorrect
	Fan socket outlet reading incorrect
	Fan socket outlet pass/fail result incorrect
2.7 Testing of Circuit for Automatic Disconnection of Supply (Fault loop impedance)	
	Reading incorrect
	Incorrect value from Table 8.2
	Pass/fail result incorrect
	Missing or incorrect unit/s
2.8 Testing of Operation of RCDs	
	RCD 1 trip time reading incorrect
	RCD 1 trip current reading incorrect
	RCD 2 trip time reading incorrect
	RCD 2 trip current reading incorrect
	RCD 3 trip time reading incorrect
	RCD 3 trip current reading incorrect
	Missing or incorrect unit/s
	Wiring Rule answer incorrect
	Wiring Rule clause number incorrect

Total Marks LOST for Question 2

Total Marks awarded for Question 2

Question 3: MEN System Voltage Measurements

3.1 Voltage Measurements	
	Supply voltage reading incorrect
	Test condition 1 – independent earth and appliance frame reading incorrect
	Test condition 1 – independent earth and water tap/pipe reading incorrect
	Test condition 1 – appliance terminals reading incorrect
	Test condition 2 – independent earth and appliance frame reading incorrect
	Test condition 2 – independent earth and water tap/pipe reading incorrect
	Test condition 2 – appliance terminals reading incorrect
	Test condition 3 – independent earth and appliance frame reading incorrect
	Test condition 3 – independent earth and water tap/pipe reading incorrect
	Test condition 3 – appliance terminals reading incorrect
	Missing or incorrect unit/s
	Installation safe/unsafe determination incorrect
	Current path indicated on diagram incorrect for measured circuit and/or indicated fault type
	Location of fault indicated on diagram incorrect
3.2 Questions	
	Question 1 incorrect or omitted
	Question 2 incorrect or omitted
	Question 3 incorrect or omitted
	Question 4 incorrect or omitted

Total Marks LOST for Question 3

Total Marks awarded for Question 3

Question 4: Visual Defects

- Note: If the wiring defect is incorrect or so poorly worded the assessor is unable to identify meaning, then no mark shall be awarded for the corresponding clause number

	Defect 1 wiring defect incorrect
	Defect 1 clause number incomplete or incorrect
	Defect 2 wiring defect incorrect
	Defect 2 clause number incomplete or incorrect
	Defect 3 wiring defect incorrect
	Defect 3 clause number incomplete or incorrect
	Defect 4 wiring defect incorrect
	Defect 4 clause number incomplete or incorrect
	Defect 5 wiring defect incorrect
	Defect 5 clause number incomplete or incorrect

Total Marks LOST for Question 4

Total Marks awarded for Question 4