



## **LEP ASSESSMENT REVIEW**

FOR

SURNAME:

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NAME:

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ASSESSMENT DATE:

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Candidate: \_\_\_\_\_

Final Mark

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Assessor \_\_\_\_\_

**NOTE:** Question 1 is a negative marking system. Start with 25 marks and marks are deducted from 25 if mistakes are made. Zero (0) mark is the minimum mark for question 1.

**Q1 Relates to Wiring of Meter Board and Switchboard (25 marks)**

**General**

- Incorrect type of installation wired
- Incorrect Hot Water Unit wired

**Consumer Mains**

- Underground cables not correctly labelled or not labelled at all
- Overhead Mains Box incorrectly wired

**Meter Panel**

- Service Fuse not wired or is incorrectly wired
- Meter wiring is incorrect
- Neutral Link not wired or is incorrectly wired
- Consumers Neutral not on the correct terminal of the N-link
- Cable Tie not used or incorrectly used
- Customer's address label on meter panel is missing or not on the meter panel
- Underground Sheet not used or incomplete

**Switchboard**

- MEN connection is incorrect or missing
- Main Neutral not correctly wired at Neutral Bar
- Location label for the Earth Electrode is missing, incorrect wording and/or not in the correct location.
- Main Earth is to to slack at Earth Clip.
- Main Earth is incorrectly installed.
- Main Earth Conductor not labelled at Earth electrode end.
- Main Switches are incorrect type
- Main Switches are incorrect rating
- Main Switches are incorrectly labelled
- Switchboard labels are incorrect or missing
- RCD incorrectly wired or not used
- Switchboard wiring incorrect
- Final subcircuits are not protected by protective devices
- RCD are not protecting socket outlet and/or light final sub circuit
- Incorrect selection of components
- Live parts- no pole filler used or missing pole fillers or covers left off or Escutcheon plate missing

**Circuit Wiring**

- Final subcircuits cables missing.
- Final subcircuits cables incorrect size.
- Final subcircuits neutrals not in the same sequence as the actives.

**General**

- Extra components used

**Total marks LOST for question 1**

**Total marks awarded for question 1**

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**Q2 Relates to Testing an Installation (51 marks)**

**Q2.1 Resistance of the Main Earthing Conductor and Bonding Conductors (4**

**Main Earthing Conductor (2 marks)**

- Main Earth conductor - Correct Reading and result
- Main Earth conductor - Correct Reading with result incorrect
- Main Earth conductor - Correct Reading with no or incorrect units
- Main Earth Conductor - Incorrect reading
- Main Earth conductor - Not attempted
- MARKS AWARDED

**Bonding Conductor to water pipe (2 marks)**

- Bonding conductor - Correct Reading and result
- Bonding conductor - Correct Reading with result incorrect
- Bonding conductor - Correct Reading with no or incorrect units
- Bonding Conductor - Incorrect reading
- Bonding conductor - Not attempted
- MARKS AWARDED

**Q2.2 Insulation Resistance of Wiring (17 marks)**

**Whole Installation (5 marks)**

- Whole Installation - Correct Reading and Result
- Whole Installation - Correct Reading with result incorrect or not given.
- Whole Installation - Correct Reading with no or incorrect units
- Whole Installation - Incorrect reading
- Whole Installation - Not attempted
- MARKS AWARDED

**Subcircuit No.1 (3 marks)**

- Subcircuit No.1 - Correct Reading and Result
- Subcircuit No.1 - Correct Reading with result incorrect or not given.
- Subcircuit No.1 - Correct Reading with no or incorrect units
- Subcircuit No.1 - Incorrect reading
- Subcircuit No.1 - Not attempted
- MARKS AWARDED

**Subcircuit No.2 (3 marks)**

- Subcircuit No.2 - Correct Reading and Result
- Subcircuit No.2 - Correct Reading with result incorrect or or not given.
- Subcircuit No.2 - Correct Reading with no or incorrect units
- Subcircuit No.2 - Incorrect reading
- Subcircuit No.2 - Not attempted
- MARKS AWARDED

**Q2.2** continues **Insulation Resistance of Wiring**

**Subcircuit No.3 (3 marks)**

- Subcircuit No.3 - Correct Reading and Result
- Subcircuit No.3 - Correct Reading with result incorrect or not given.
- Subcircuit No.3 - Correct Reading with no or incorrect units
- Subcircuit No.3 - Incorrect reading
- Subcircuit No.3 - Not attempted
- MARKS AWARDED

**Subcircuit No.4 (3 marks)**

- Subcircuit No.4 - Correct Reading and Result
- Subcircuit No.4 - Correct Reading with result incorrect or not given.
- Subcircuit No.4 - Correct Reading with no or incorrect units
- Subcircuit No.4 - Incorrect reading
- Subcircuit No.4 - Not attempted
- MARKS AWARDED

**Q2.3 Earthing & Insulation Resistance of Appliance (4 marks)**

**Earthing of the appliance (2 marks)**

- Earthing of Exposed Metal - Correct Reading and Result
- Earthing of Exposed Metal - Correct Reading with result incorrect
- Earthing of Exposed Metal - Correct Reading with no or incorrect units
- Earthing of Exposed Metal - Incorrect reading
- Earthing of Exposed Metal - Not attempted
- MARKS AWARDED

**Insulation Resistance of Appliance (2 marks)**

- Insulation Resistance - Correct Reading and Result
- Insulation Resistance - Correct Reading with result incorrect
- Insulation Resistance - Correct Reading with no or incorrect units
- Insulation Resistance - Incorrect reading
- Insulation Resistance - Not attempted
- MARKS AWARDED

**Q2.4 Polarity Test - Consumers Mains (4 marks)**

**Consumers Mains ACTIVE (2 marks)**

- Active - Correct Reading and Result
- Active - Correct Reading with result incorrect
- Active - Correct Reading with no or incorrect units
- Active - Incorrect reading
- Active - Not attempted
- MARKS AWARDED

**Consumers Mains Neutral (2 marks)**

- Neutral - Correct Reading and Result
- Neutral - Correct Reading with result incorrect
- Neutral - Correct Reading with no or incorrect units
- Neutral - Incorrect reading
- Neutral - Not attempted
- MARKS AWARDED

**Q2.5 Polarity Test - Operation of Switches**

**Ceiling Rose (2 marks)**

- Ceiling Rose - Correct response given with the correct result.
- Ceiling Rose - Correct response given with an incorrect result
- Ceiling Rose - Incorrect response given.
- Ceiling Rose - Not attempted
- MARKS AWARDED

**Fluorescent Luminaire (2 marks)**

- Fluorescent Luminaire - Correct response given with the correct result.
- Fluorescent Luminaire - Correct response given with an incorrect result
- Fluorescent Luminaire - Incorrect response given.
- Fluorescent Luminaire - Not attempted
- MARKS AWARDED

**Socket Outlet No. 1 (2 marks)**

- Socket Outlet No. 1 - Correct response given with the correct result.
- Socket Outlet No. 1 - Correct response given with an incorrect result
- Socket Outlet No. 1 - Incorrect response given.
- Socket Outlet No. 1 - Not attempted
- MARKS AWARDED

**Socket Outlet No. 2 (2 marks)**

- Socket Outlet No. 2 - Correct response given with the correct result.
- Socket Outlet No. 2 - Correct response given with an incorrect result.
- Socket Outlet No. 2 - Incorrect response given.
- Socket Outlet No. 2 - Not attempted
- MARKS AWARDED

**Socket Outlet FAN (2 marks)**

- Socket Outlet Fan - Correct response given with the correct result.
- Socket Outlet Fan - Correct response given with an incorrect result
- Socket Outlet Fan - Incorrect response given.
- Socket Outlet Fan - Not attempted.
- MARKS AWARDED

**Q2.6 Resistance of Protective Earthing Conductors**

**Socket Outlet No.1 (2 marks)**

- Socket Outlet No. 1 - Correct Reading and Result
- Socket Outlet No. 1 - Correct Reading with result incorrect
- Socket Outlet No. 1 - Correct Reading with no or incorrect units with the correct result.
- Socket Outlet No. 1 - Incorrect reading
- Socket Outlet No. 1 - Not attempted
- MARKS AWARDED

**Socket Outlet No. 2 (2 marks)**

- Socket Outlet No. 2 - Correct Reading and Result
- Socket Outlet No. 2 - Correct Reading with result incorrect
- Socket Outlet No. 2 - Correct Reading with no or incorrect units with the correct result.
- Socket Outlet No. 2 - Incorrect reading
- Socket Outlet No. 2 - Not attempted
- MARKS AWARDED

**Fluorescent Luminaire (2 marks)**

- Fluorescent Luminaire - Correct Reading and Result
- Fluorescent Luminaire - Correct Reading with result incorrect
- Fluorescent Luminaire - Correct Reading with no or incorrect units with the correct result.
- Fluorescent Luminaire - Incorrect reading
- Fluorescent Luminaire - Not attempted
- MARKS AWARDED

**Appliance Socket Outlet (2 marks)**

- Appliance Socket Outlet - Correct Reading and Result
- Appliance Socket Outlet - Correct Reading with result incorrect
- Appliance Socket Outlet - Correct Reading with no or incorrect units with the correct result.
- Appliance Socket Outlet - Incorrect reading
- Appliance Socket Outlet - Not attempted
- MARKS AWARDED

**Q2.7 Fault Loop Impedance (4 marks)**

**Socket Outlet No.3 (2 marks)**

- Socket Outlet No.3 - All parts correct
- Socket Outlet No.3 - Correct Measured and Table 8.2 values with incorrect result.
- Socket Outlet No.3 - Correct Measured value with incorrect Table 8.2 value therefore incorrect result.
- Socket Outlet No.3 - Incorrect Measured Value
- Socket Outlet No.3 - Incorrect Protective device rating.
- Socket Outlet No.3 - Values have no or incorrect units given.
- Socket Outlet No.3 - Not attempted
- MARKS AWARDED

**Socket Outlet No.4 (2 marks)**

- Socket Outlet No.4 - All parts correct
- Socket Outlet No.4 - Correct Measured and Table 8.2 values with incorrect result.
- Socket Outlet No.4 - Correct Measured value with incorrect Table 8.2 value therefore incorrect result.
- Socket Outlet No.3 - Incorrect Measured Value.
- Socket Outlet No.4 - Incorrect Protective device rating.
- Socket Outlet No.4 - Values have no or incorrect units given.
- Socket Outlet No.4 - Not attempted
- MARKS AWARDED

**3 MEN System Voltage Measurements (9 marks)**

**3.1 Measured Values (4 marks)**

<input type="checkbox"/>	No supply voltage measured or incorrect
<input type="checkbox"/>	Test Condition 1 Both readings correct
<input type="checkbox"/>	Test Condition 1 Both readings incorrect
<input type="checkbox"/>	Test Condition 1 Appliance Frame reading correct
<input type="checkbox"/>	Test Condition 1 Appliance Frame reading incorrect
<input type="checkbox"/>	Test Condition 1 Water Pipe reading correct
<input type="checkbox"/>	Test Condition 1 Water Pipe reading incorrect
<input type="checkbox"/>	Test Condition 2 Both readings correct
<input type="checkbox"/>	Test Condition 2 Both readings incorrect
<input type="checkbox"/>	Test Condition 2 Appliance Frame reading correct
<input type="checkbox"/>	Test Condition 2 Appliance Frame reading incorrect
<input type="checkbox"/>	Test Condition 2 Water Pipe reading correct
<input type="checkbox"/>	Test Condition 2 Water Pipe reading incorrect
<input type="checkbox"/>	Test Condition 3 Both readings correct
<input type="checkbox"/>	Test Condition 3 Both readings incorrect
<input type="checkbox"/>	Test Condition 3 Appliance Frame reading correct
<input type="checkbox"/>	Test Condition 3 Appliance Frame reading incorrect
<input type="checkbox"/>	Test Condition 3 Water Pipe reading correct
<input type="checkbox"/>	Test Condition 3 Water Pipe reading incorrect
<input type="checkbox"/>	Test Condition 4 Both readings correct
<input type="checkbox"/>	Test Condition 4 Both readings incorrect
<input type="checkbox"/>	Test Condition 4 Appliance Frame reading correct
<input type="checkbox"/>	Test Condition 4 Appliance Frame reading incorrect
<input type="checkbox"/>	Test Condition 4 Water Pipe reading correct
<input type="checkbox"/>	Test Condition 4 Water Pipe reading incorrect
<input type="checkbox"/>	All the APPLIANCE FRAME readings incorrect
<input type="checkbox"/>	All the WATER PIPE readings incorrect
<input type="checkbox"/>	No units or incorrect units given
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	MARKS AWARDED

**3.2 MEN explanation (5 marks)**

<input type="checkbox"/>	Your explanation of the Voltage readings covers all aspects of the question
<input type="checkbox"/>	No mention of what the fault could be and where the fault occurs?
<input type="checkbox"/>	No explanation of the MEN system.
<input type="checkbox"/>	Your explanation does not fully explain the voltage readings.
<input type="checkbox"/>	In your explanation you write that voltage flows in the circuit instead of current flow.
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**4 Visual Defects (15 marks)**

**Defect 1 (3 marks)**

<input type="checkbox"/>	Correct defect and Wiring Rules Clause No.
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incorrect or not provided
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incomplete
<input type="checkbox"/>	Incorrect defect with correct Wiring Rules Clause/Table Number
<input type="checkbox"/>	Incorrect defect with incorrect Wiring Rules Clause/Table Number
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**Defect 2 (3 marks)**

<input type="checkbox"/>	Correct defect and Wiring Rules Clause No.
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incorrect or not provided
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incomplete
<input type="checkbox"/>	Incorrect defect with correct Wiring Rules Clause/Table Number
<input type="checkbox"/>	Incorrect defect with incorrect Wiring Rules Clause/Table Number
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**Defect 3 (3 marks)**

<input type="checkbox"/>	Correct defect and Wiring Rules Clause No.
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incorrect or not provided
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incomplete
<input type="checkbox"/>	Incorrect defect with correct Wiring Rules Clause/Table Number
<input type="checkbox"/>	Incorrect defect with incorrect Wiring Rules Clause/Table Number
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**Defect 4 (3 marks)**

<input type="checkbox"/>	Correct defect and Wiring Rules Clause No.
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incorrect or not provided
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incomplete
<input type="checkbox"/>	Incorrect defect with correct Wiring Rules Clause/Table Number
<input type="checkbox"/>	Incorrect defect with incorrect Wiring Rules Clause/Table Number
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**Defect 5 (3 marks)**

<input type="checkbox"/>	Correct defect and Wiring Rules Clause No.
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incorrect or not provided
<input type="checkbox"/>	Correct defect with Wiring Rules Clause/Table Number incomplete
<input type="checkbox"/>	Incorrect defect with correct Wiring Rules Clause/Table Number
<input type="checkbox"/>	Incorrect defect with incorrect Wiring Rules Clause/Table Number
<input type="checkbox"/>	Question not attempted
<input type="checkbox"/>	Marks awarded

**MARKS AWARDED  
for Question 4**

<input type="text"/>
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