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**071305T4EOP**

**ELECTRICAL OPERATION LEVEL 5**

**ENG/OS/PO/CR/07/5/A**

**Perform Electrical Breakdown Maintenance**

**March/April 2025**

**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)**

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# PRACTICAL ASSESSMENT CHECKLIST

## INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. Ensure the candidate has a name tag and registration code at the back and front

**This checklist consists of FIVE (5) printed pages.**

Create the following faults in the absence of the candidate:

1. Open circuit – open S2, L2 and circuit breaker;
2. Short circuit – short L1 and S3;
3. Wrong termination – terminate sockets wrongly;
4. Color codes – change color codes on S2 and S3;
5. Switching the neutral- change the cables for sockets;
6. Polarity interchange – for the sockets switch neutral with earth.

## OBSERVATION CHECKLIST

| | | | |
|---|---|---|---|
| **Candidate's Name & Registration Code** | | | |
| **Assessors Name & Registration Code** | | | |
| **Venue of Assessment** | | | |
| **Date of Assessment** | | | |
| **Items to be Evaluated:** *Please award marks as appropriate. Give a brief comment on your observation.* | **Marks Available** | **Marks Obtained** | **Comments** |
| **TASK 1: Identify the faults in the installation.** | | | |
| 1. Wore safety clothing<br>• *Safety boots*<br>• *Apron/Dust coat*<br>• *Gloves.*<br>*(Award 1 mark each)* | 1<br>1<br>1 | | |
| 2. Identified and sampled the tools and equipment required for troubleshooting:<br>• *Multimeter*<br>• *Phase Tester*<br>• *Assorted screwdrivers*<br>• *Stiffing knife*<br>• *Side cutter*<br>*(Award 2 marks each)* | 2<br>2<br>2<br>2<br>2 | | |

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| | | | |
|---|---|---|---|
| 3. Identified the following faults for troubleshooting:<br>• *Open circuit – open S2, L2 and circuit breaker (Award 1 for each)*<br>• *Short circuit – short L1 and S3 (Award 1 for each)*<br>• *Wrong termination – terminate sockets wrongly (Award 2 for each)*<br>• *Color codes – change color codes on S2 and S3 (Award 1 for each)*<br>• *Switching the neutral- change the cables for sockets (Award 1 for each)*<br>• *Polarity interchange – for the sockets switch neutral with earth (Award 2 for each socket)* | 3<br>2<br>4<br>2<br>2<br>4 | | |
| **Sub Total** | **30** | | |
| **TASK 2: Record the identified faults and provide remedies for each faults.** | | | |
| 4. Recorded the faults and their remedies:<br>• *Open circuit (Award 2 for each)*<br>• *Short circuit (Award 2 for each)*<br>• *Wrong termination (Award 2 for each)*<br>• *Color codes (Award 2 for each)*<br>• *Switching the neutral(Award 2 for each)*<br>• *Polarity interchange (Award 2 for each)* | 2<br>2<br>2<br>2<br>2<br>2 | | |
| **Sub total** | **12** | | |
| **TASK 3: Repair and test for functionality** | | | |
| 5. Took action plan to repair the faults in the installation;<br>• *Observed (visual inspection)*<br>• *Defined the problem area* | 3<br>3 | | |

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| | | | |
|---|---|---|---|
| • *Repaired the faults in the installation*<br>*(Award 3 marks each)* | 3 | | |
| 6. Performed test for the installation<br>• *Continuity test*<br>• *Insulation resistance test*<br>• *Polarity test*<br>*(Award 3 marks each)* | <br>3<br>3<br>3 | | |
| 7. Tested the functionality of the installation.<br>• *Lighting circuit*<br>• *Power circuit*<br>*(Award 5 mark each)* | <br>5<br>5 | | |
| 8. Applied good housekeeping practice<br>• *Clean working area (Award 2 or 0)*<br>• *Tiddly arranged the working area (Award 2 or 0)*<br>• *Properly disposed waste (Award 1 or 0)* | <br>2<br>2<br>1 | | |
| **Sub-Total** | **33** | | |
| **TOTAL** | **71** | | |
| **GRAND TOTAL** $\frac{x}{71}x100$) | **100** | | |

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**ASSESSMENT OUTCOME**

The candidate was found to be:

Competent ☐ Not yet Competent ☐

*(Please tick as appropriate)*

*(The candidate is competent if the candidate obtains at least 50%)*

**Feedback from the Candidate:**

| | |
|---|---|
| **Feedback to the Candidate:** | |
| **Candidate Signature**<br>_____ | **Date:**<br>_____ |
| **Assessor's Signature**<br>_____ | **Date**<br>_____ |

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