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071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/OS/PO/CR/07/5

Perform Electrical Breakdown Maintenance

July/August 2025

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

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PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

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OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessor's 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**
1. Adhered to safety: a. Safety boots. (*Award 1 or 0)* b. Apron. (*Award 1 or 0)* c. Handled tools properly. (*Award 2 or 0)*	 1 1 2		
2. Observed color code *(Award 2 or 0)*	2		
3. Maintained a safe and clean working environment *(Award 3 or 0)*	3		
4. Adhered to waste disposal regulations *(Award 3 or 0)*	3		
Sub total	**12**		
TASK 1			
5. Identified the different equipment and tools. a. Wire stripper *(Award 1 or 0)* b. Screwdrivers *(Award 1 or 0)* c. Multimeter (*Award 1 or 0)* d. Megger (*Award 1 or 0)* e. Intermediate Switch (*Award 1 or 0)* f. Two-gang two-way switches (*Award 1 or 0)*	1 1 1 1 1 1		
Sub total	**6**		
TASK 2			

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6. Drew wiring diagram as per the layout diagram a. Lighting (6 1)	6		
b. Power Sockets (4 1)	4		
Sub total	**10**		
TASK 3			
7. Identified faults correctly; a. Consumer intake point; (4 1) b. lighting circuit; (2 1) c. socket outlets circuit;(2 1)	4 2 2		
Sub total	**8**		
TASK 4			
8. Repaired connection at; a. Consumer intake point; (4 ×1) b. lighting circuit; (6 1) c. socket outlets circuit;(4× 1)	4 6 4		
Sub total	**14**		
TASK 5			
9. Tested the circuit a. Continuity test *(Award 3×1)* b. Polarity test *(Award 3×1)* c. Insulation resistance test *(Award 3×1)* d. Functionality restored *(Award 5×1)*	3 3 3 5		
Sub-total	**14**		
TASK 6			

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10. Prepared maintenance report a) Reported on the condition of installation before repair b) Reported on the diagnosis of installation c) Reported on the repair procedure d) Reported on the tests done after repair e) Reported on the results tests done after repair f) Reported on the final condition of the installation *(Award 2 or 0)*	2 2 2 2 2 2		
Sub-total	**12**		
GRAND TOTAL	**76**		
PERCENTAGE TOTAL $\frac{x}{76} \times 100$			

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:

GRAND TOTAL	**76**		
PERCENTAGE TOTAL $\frac{x}{76} \times 100$			

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APPENDIX: PRINT FOR ASSESSOR ONLY

INSTRUCTIONS TO THE ASSESSOR

Perform the following alterations on the circuit before the start of the assessment:

1. *Interchange the connection of the equipment at the intake point to start with the energy meter*
2. *Interchange 4 terminations at the CCU and interchange MCB connections e.g. have the lighting circuit connected to the power MCB*
3. *Create short circuit at the power terminal and L1*
4. *Create open circuits at L2 and S01*

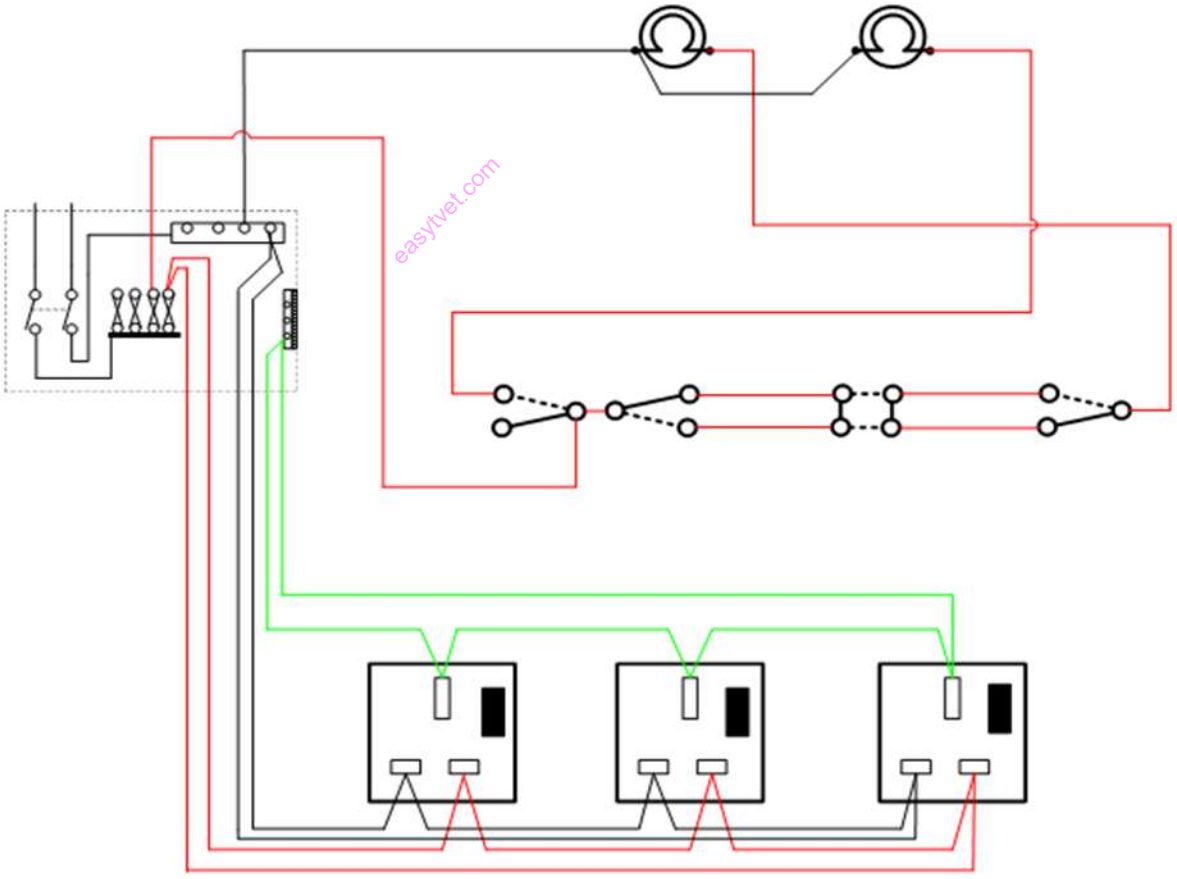


Figure 1. Wiring diagram