

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/08/6

Maintain Electrical Equipment and Systems

July/August 2025



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

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

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
Task 1:			
Wiring Diagram			
i. Drew wiring diagram	2		
ii. Obtained the necessary information about the failure from the user as per the set procedures (<i>Award 0 or 2</i>)	2		
Sub Total 1	04		
Task 2			
Identified faults			
i. Observed safety awareness			
I. Safety boots (<i>Award 0 or 2</i>)	2		
II. Apron /dust coat (<i>Award 0 or 2</i>)	2		
III. Proper handling of tools (<i>Award 0 or 2</i>)	2		
ii. Proper handling equipment (<i>Award 0 or 2</i>)	2		
iii. Housekeeping and waste disposal (<i>Award 0 or 1</i>)	1		
iv. Conducted system troubleshooting per these procedures (<i>Award 1 for any correct step total 5</i>)	5		
v. Diagnosed the system for failure using the appropriate procedure	2		

vi. Recorded system failure results as per established procedure	2		
vii. Made decision and recorded recommendation. (<i>Award 4 or 0</i>)	4		
Sub Total 2	22		
Task 3			
3. Identified maintenance tools, equipment and materials (<i>Award 0 or 4</i>)	4		
4. Checked Specification and functionality of tools equipment and materials with the applicable technical and safety standards. (<i>Award 0 or 4</i>)	4		
Sub Total 3	8		
Task 4			
5. Observed safety precautions (<i>Award 0 or 4</i>)	4		
6. Repaired the system per the wiring diagram as per the layout diagram:			
i. Switches (<i>Award 0 or 4</i>)	4		
ii. CCU (<i>Award 0 or 3</i>)	3		
iii. Lamps (<i>Award 0 or 2</i>)	2		
iv. Sockets (<i>Award 0 or 2</i>)	2		
7. Recorded repair activities according to the established procedure (<i>Award 0 or 4</i>)	4		
Sub Total 4	19		
Task 5			
8. Identified appropriate tests and test points and adhered to safety procedures. (<i>Award 0 or 2</i>)	2		

9. Tested the system as per test procedure. (Award 0 or 2)	2		
i. Continuity test (Award 0 or 2)	2		
ii. Polarity tests (Award 0 or 2)	2		
10. Correct circuit operation:			
i. Switches (Award 0 or 3)	3		
ii. Sockets (Award 0 or 3)	3		
iii. Lighting (Award 0 or 3)	3		
11. Recorded test results according to established procedures. (Award 0 or 2)	2		
12. Compared parameters against the standard values. (Award 0 or 2)	2		
13. Prepared maintenance report according to approved format (Award 0 or 2)	2		
Sub Total 5	23		
Total Marks	76		
Percentage = $\frac{X}{76} \times 100$	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:	
Candidate Signature _____	Date: _____
Assessor's Signature _____	Date _____

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APPENDIX: PRINT FOR ASSESSOR ONLY

INSTRUCTIONS TO THE ASSESSOR

1. Ensure all the materials and equipment for this assessment are provided.
2. Create the following faults before the commencement of the practical:
 - i. Create loose wiring connections in one of the sockets;
 - ii. Short circuit live and neutral in the lamp's termination;
 - iii. Create an open circuit in switch S2.
 - iv. Feed the circuit breaker in the consumer control unit with the neutral wire;
 - v. Strip to expose the live wire in one of the socket outlets before termination

WIRING DIAGRAM

