



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

Qualification Code : 071606T4MCT
Qualification : Mechatronics Technician Level 6
Unit Code : ENG/OS/MC/CC/04/6/A
Unit of Competency : Apply Electrical and Electronics Principles

PRACTICAL ASSESSMENT ASSESSOR'S GUIDE

INSTRUCTIONS TO CANDIDATE:

The candidate is allocated **5 hours** to perform the tasks below:

- i. Estimate material required to assemble and fabricate the circuit.
- ii. Identify the three terminals of the transistor provided using a multimeter.
- iii. Using circuit diagram provided, fabricate and solder the electronic circuit on the strip board.
- iv. Carry out all the necessary tests before powering it with a **9V D.C** supply provided.
- v. Connect the powered electronic circuit to the Cathode Ray Oscilloscope and measure the frequency of resulting sine wave.

ASSESSOR OBSERVATION CHECKLIST

Candidate's name & Registration No.			
Assessor's name & ID No /Reg. code			
Unit(s) of Competency	Mechatronics Technician Level 6		
Venue of Assessment			
Date of assessment			
Items to be evaluated:	Marks Allocated	Marks Awarded	Comments
1. Wore personal protective clothing (Safety boots, apron/dust coat, helmet)	2		
2. Assembled tools & equipment	2		
3. Correct identification of materials	5		
4. Applied appropriate mounting procedures	3		
5. Implemented the working drawing as per the job description	3		
6. Proper use of tools and equipment	4		
Sub -Total	19		

PRODUCT CHECKLIST			
7. Uniform spread of components on the circuit board	6		
8. Labelled the circuit for correct identification	3		
9. Performed the necessary tests for the correct operation of the circuit	2		
10. Soldering of the components as per the required procedures.	2		
11. Correct circuit operation	6		
12. Expected test results	6		
Sub – Total	41		
Grand Total	60		

The candidate was found to be: **Competent** **Not yet competent**

(Please tick as appropriate)

(The candidate is competent if s/he gets at least 50% or higher.)

Feedback from candidate:

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Feedback to candidate:

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Candidate's signature

Date

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Assessor's signature

Date

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