

071306T4ELC

ELECTRONICS ENGINEERING LEVEL 6

ENG/OS/ET/CR/06/6/A

Maintain Automation and Radio Frequency Systems

Nov/Dec 2024



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

PRACTI

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INSTRUCTION TO ASSESSORS

1. Introduce the following faults in the circuit the candidate enters the assessment room.
 - i. Short circuit
 - ii. Open circuit
 - iii. Interchange the polarity of capacitor C_3
 - iv. Remove two components

OBSERVATION CHECKLIST

Candidate's Name & Registration Code	
Assessors Name & Registration Code	
Venue of Assessment	
Date of assessment	

Items to be evaluated: (Award appropriate marks for each item evaluated)	Marks allocated	Marks obtained	Comments
OBSERVATION CHECKLIST			
1. Wore Personal Protective Equipment			
i. Dustcoat/Overall (Award 1 or 0)	1		
ii. Safety boots (Award 1 or 0)	1		
2. Applied good housekeeping practice			
i. Ensured clean working area before beginning working. (Award 1 or 0)	1		
ii. Tidy working area arrangement (Award 1 or 0)	1		
iii. Proper Waste disposal (Award 1 or 0)	1		
3. Identified and correct use of tools and equipment			
i. Pliers (Award 1 or 0)	1		
ii. Multimeter (Award 1 or 0)	1		
iii. Power supply (Award 1 or 0)	1		
Sub total	10		
PRODUCT CHECKLIST			
Prepare Check List			
4. Prepared a maintenance checklist			
i. Equipment identification – System name (Award 2 or 0)	2		
ii. Inspection tasks to be performed (Award 2 or 0)	2		
iii. List of maintenance tasks to be performed (Award 2 or 0)	2		
iv. Tools and materials required (Award 2 or 0)	2		
v. Notes, comments and/or remarks (Award 2 or 0)	2		
Sub Total	10		
TASK 2 – Maintenance Tools, Equipment and materials			

5. Prepared a list of maintenance tools, equipment and materials:			
i. Cable stripper (<i>Award 1 or 0 marks</i>)	1		
ii. Multimeter (<i>Award 1 or 0 marks</i>)	1		
iii. Oscilloscope (<i>Award 1 or 0 marks</i>)	1		
iv. Signal generator (<i>Award 1 or 0 marks</i>)	1		
v. Phase tester (<i>Award 1 or 0 marks</i>)	1		
vi. Long nose pliers (<i>Award 1 or 0 marks</i>)	1		
Sub Total	6		
TASK 3 - Repair and maintenance activities.			
6. Performed repair and maintenance activities:			
i. Corrected a short circuit (<i>5 or 0 marks</i>)	5		
ii. Corrected an open circuit (<i>5 or 0</i>	5		
iii. Identified polarity issues on capa <i>marks</i>)	5		
iv. Identified two missing componen <i>(5 marks for each component)</i>	10		
Sub total	25		
Testing & Operation			
7. Tested the functionality of the circuit:			
i. Continuity test <i>(Award 2 marks if done correctly, zero otherwise)</i>	2		
ii. Polarity test <i>(Award 2 marks if done correctly, zero otherwise)</i>	2		
When you introduce an input signal to the electret, the signal is amplified and an output to the speaker. <i>(Award 10 or 0 marks)</i>	10		
Sub Total	14		

Report			
8. Maintenance report			
i. Equipment identification - name of the equipment that was maintained. (Award 2 marks if indicated, otherwise zero)	2		
ii. Date and time of maintenance (Award 2 marks if indicated, otherwise zero)	2		
iii. Maintenance tasks performed (Award 2 marks if enumerated, otherwise zero)	2		
iv. Maintenance Personnel who performed the maintenance tasks. (Award 2 marks if indicated, otherwise zero)	2		
v. Tools and materials used to perform maintenance tasks. (Award 2 marks if indicated, otherwise zero)	2		
vi. Parts Replaced during the maintenance. (Award 2 marks if indicated, otherwise zero)	2		
vii. Observations and Findings made (Award 2 marks if indicated, otherwise zero)	2		
viii. Signature (Award 1 marks if indicated, otherwise zero)	1		
Sub – Total	15		
GRAND TOTAL	80		
$\frac{x}{80} \times 100$			
ASSESSMENT OUTCOMES			
The candidate was found to be: (Please tick (✓) as appropriate)			
Competent	Not yet competent		

(The candidate is competent if s/he gets 50% of the total marks)

Feedback from candidate:

Feedback to candidate:

Candidate's signature:

Date:

Assessor's signature:

Date:

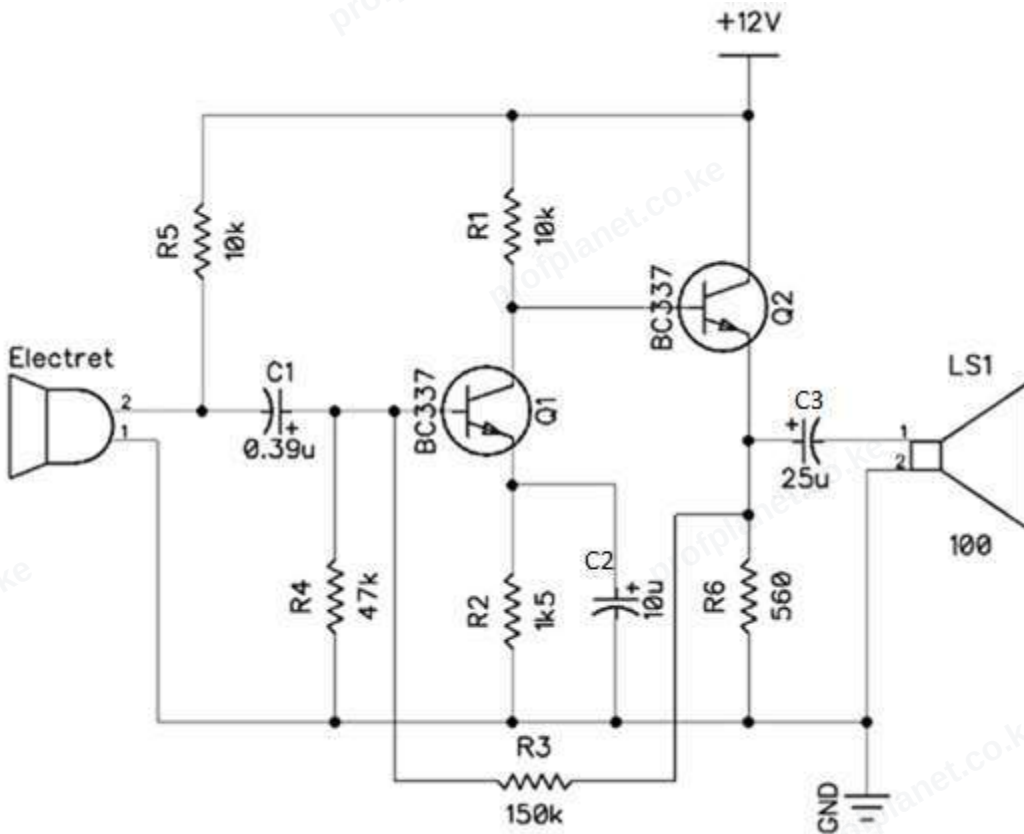


Figure 1

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