

071305T4ELC

ELECTRONICS CRAFTS PERSON LEVEL 5

ENG/OS/ET/CR/05/5/A

Maintain Radio Frequency Systems

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

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:			
1. Wore Personal Protective Equipment			
i. Dustcoat/Overall (<i>Award 1 or 0</i>)	1		
ii. Safety gloves (<i>Award 1 or 0</i>)	1		
2. Applied good housekeeping practice			

<ul style="list-style-type: none"> i. Cleaned working area before beginning working. <i>(Award 1 or 0)</i> ii. Tidy working area arrangement before beginning <i>(Award 1 or 0)</i> 	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p>		
<p>3. Identified and correctly used the following of tools and equipment:</p> <ul style="list-style-type: none"> i. Multimeter <i>(Award 1 or 0)</i> ii. Solder sucker <i>(Award 1 or 0)</i> iii. Soldering gun <i>(Award 1 or 0)</i> iv. Side cutters <i>(Award 1 or 0)</i> v. Wire Stripper <i>(Award 1 or 0)</i> vi. Soldering gun stand <i>(Award 1 or 0)</i> 	<p style="text-align: center;">1</p>		
<p>4. Mounted audio transmitter and receiver components firmly <i>(Award 1 mark each for any 10)</i></p> <p>5. Achieved quality solder joints (shiny, smooth, clean, concave solder fillet) and carried out correct connection for the following components:</p> <ul style="list-style-type: none"> i. 1kΩ Resistor ii. 100kΩ Resistor iii. 100kΩ Potentiometer iv. LM386 IC v. Speaker vi. 9V Battery vii. Photo diode 940 nm viii. IR Light Emitter Diode LED 940 nm ix. Electrolytic Capacitor 0.1μF 25v x. Electrolytic Capacitor 10μF 25v xi. Electrolytic Capacitor 22μF 25v <p><i>(Award 1 x 10)</i></p>	<p style="text-align: center;">10</p> <p style="text-align: center;">10</p>		

6. Spaced components uniformly (Award 4 or 0)	4		
7. Trimmed long terminals (Award 1 or 0)	1		
8. Prepared a maintenance checklist containing:			
i. Task to be performed (Award 2 or 0)	2		
ii. Highlighted key test points for the circuit (Award 1 mark each for any 3)	3		
iii. Specific components or area that requires maintenance. (Award 2 or 0)	2		
iv. List of tools and materials (Award 2 or 0 for any 2)	2		
v. Procedure or steps to complete the maintenance task. (Award 2 or 0)	2		
vi. Safety precautions to be taken (Award 2)	2		
9. Tested the circuit for correct functionality (Award 5 marks or 0)	5		
Tidy working area arrangement After work (Award 1 or 0)	1		
Disposed Waste properly (Award 1 or 0)	1		
Sub-Total 1	55		
GRAND TOTAL	55		
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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