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071305T4ELC

ELECTRONICS CRAFTPERSON LEVEL 5

ENG/OS/ET/CR/04/5/A

Apply Electrical Instrumentation

Nov/Dec 2024

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

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PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors 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**
TASK:			
1. Wore Personal Protective Equipment i. Dustcoat/Overall *(Award 1 or 0)* Safety gloves *(Award 1 or 0)*	 1 1		
2. Applied good housekeeping practice			

i. Cleaned working area before beginning working. *(Award 1 or 0)* ii. Arranged working area before beginning *(Award 1 or 0)*	1 1		
3. Identified and correctly used the following of tools and equipment: i. Multimeter *(Award 1 or 0)* ii. Solder sucker *(Award 1 or 0)* iii. Soldering gun *(Award 1 or 0)* iv. Side cutters *(Award 1 or 0)* v. Wire Stripper *(Award 1 or 0)* vi. Soldering gun stand *(Award 1 or 0)*	 1 1 1 1 1 1		
4. Mounted and soldered components firmly *(Award 1 mark each for any 10)* 5. Achieved quality of solder joints (shiny, smooth, clean, concave solder fillet) and carried out correct connection for the following components: i. RF Oscillator (50KHz – 50Mhz) ii. R shunt 0.02 Ohms iii. Inductor coil of unknown value iv. Variable capacitor (30-pF) v. AC Supply 240v 50Hz *(Award 1 mark each)*	10 5		
Spaced components uniformly (*Award* 4 *or* 0)	4		
Trimmed long terminals *(Award 1 or 0)*	1		

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6. Powered the circuit and determined the value of the following: i. E=Measured by thermocouple voltmeter *(Award 3 or 0)* ii. E_C=Measured by the Electronic voltmeter VTVM (Voltage across variable capacitor C) *(Award 3 or 0)* iii. $Q=\frac{Ec}{E}=\frac{Xl}{R}=\frac{1}{R}\sqrt{\frac{L}{C}}$ *(Award 3 or 0)* iv. L and R under these conditions; either by setting the oscillator to a given frequency and varying c or by keeping value of c constant and adjusting the oscillator frequency. *(Award 2 marks each or 0)* 7. Arranged working area after work *(Award 1 or 0* 8. Disposed waste material properly *(Award 1 or 0)*	3 3 3 4 1 1		
GRAND TOTAL	**45**		

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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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