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071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/CU/PO/CR/04/5/A

Demonstrate Understanding of Electronics

Nov/Dec 2024

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

PRACTICAL ASSESSMENT GUIDE

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INSTRUCTIONS TO ASSESSOR:

1. You are required to mark the practical as the candidate performs give tasks.
2. Ensure the candidate has a name tag and registration code at the back and front.
3. Assign THREE hours to the candidate to carry out the practical

This tool consists of FOUR (4) printed pages

OBSERVATION CHECKLIST

Candidate's name & Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency			
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. Adhered to prescribed safety as per workplace procedures i. Wore PPEs (clear goggles, overall, safety boots) (***Award 2 or 0***) **ii.** Observed workplace safety (***Award 2 or 0***)	2 2		
2. Observed environmental safety (waste disposal, adequate ventilation and lighting(***Award 2 or 0***)	2		
3. Assembled tools, equipment and materials (***Award 2 or 0***)	2		
4. Demonstrated care and safe custody of tools and equipment(***Award 2 or 0***)	2		
5. Maintained house keeping(***Award 2 or 0***)	2		
Sub total	**12**		
PRODUCT CHECKLIST			
Task 1: Circuit Fabrication			
1. Identified component for mounting correctly ***(1 Mark for each of any 10 components***)	10		
2. Soldered components (no dry joints) ***(1 Mark each for any 10 joints)***	10		

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3. Economical use of the copper stripboard (***Award* 5 *or* 0**)	5			
Sub total	**25**			
Tasks 2: Circuit measurements				
4. Measured Voltages a) TP 1≈ 15V AC (*Award* 4 *or* 0) b) TP2 ≈ 6.8VAC(*Award* 4 *or* 0) c) TP3 ≈ 6.1V(*Award* 4 *or* 0)	 4 4 4			
5. Measured current flowing through R1≈0.61mA (***Award* 5 *or* 0**)	5			
6. Measured voltage and current as per established procedures (***Award* 5 *or* 0 *for each***)	10			
7. Neatness (***Award* 6 *or* 0**)	6			
Sub total	**33**			
GRAND TOTAL	**70**			
Percentage $= \frac{x}{70} \times 100$				

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ASSESMENT OUTCOMES

The candidate was found to be:

Competent ☐ Not yet competent ☐

(Please tick as appropriate)

(The candidate is competent if s/he gets 50% or higher) with items 1 and 8 being critical

Feedback from candidate:

Feedback to candidate:

Candidate's signature:	Date:

Assessor's signature:	Date:

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