

**071306T4EEN**

**ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6**

**ENG/OS/PO/CR/04/6**

**Demonstrate Understanding of Electronics**

**July/August 2025**



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

**PRACTICAL ASSESSMENT**

**INSTRUCTIONS TO ASSESSOR**

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

## OBSERVATION CHECKLIST

<b>Candidate's Name &amp; Registration Code</b>			
<b>Assessors Name &amp; Registration Code</b>			
<b>Unit(s) of Competency</b>	<b>Demonstrate Understanding of Electronics</b>		
<b>Venue of Assessment</b>			
<b>Date of Assessment</b>			
<b>Items to be Evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	<b>Marks Available</b>	<b>Marks Obtained</b>	<b>Comments</b>
<b>OBSERVATION CHECKLIST</b>			
1. Adhered to prescribed safety as per workplace procedures i. Wore PPEs (overall, safety boots) <b>(Award 2 or 0)</b> ii. Observed workplace safety <b>(Award 2 or 0)</b>	<b>2</b>		
2. Observed environmental safety (waste disposal, adequate ventilation and lighting) <b>(Award 2 or 0)</b>	<b>2</b>		
3. Assembled tools, equipment and materials (Award 2 or 0)	<b>2</b>		
<b>Subtotal 1</b>	<b>8</b>		
<b>TASK 1: Component Identification</b>			
4. Identified component for mounting. <b>(2 mark for each of any 6 components)</b>	<b>12</b>		
<b>Sub-Total 2</b>	<b>12</b>		
<b>TASK 2: Circuit fabrication</b>			
5. Mounted components on the PCB. <b>(1 mark for each components)</b>	<b>6</b>		

6. Soldered components <b>(I mark for each of the 14 joints)</b>	<b>14</b>		
7. Economical use of the copper strip board. <b>(Award 5 or 0)</b>	<b>5</b>		
<b>Subtotal 3</b>	<b>25</b>		
<b>Task 3: Circuit measurements</b>			
8. Measured voltages TP1 ≈ 3V <b>(Award 5 or 0)</b> TP2 ≈ 2.3V <b>(Award 5 or 0)</b> TP3 ≈ 10V <b>(Award 5 or 0)</b> TP4 ≈ 0V <b>(Award 5 or 0)</b> TP5 ≈ 7.5V <b>(Award 5 or 0)</b>	<b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b>		
9. Measured voltages as per the established procedures. <b>(Award 5 or 0 for each)</b>	<b>5</b>		
10. Neatness	<b>5</b>		
<b>Subtotal 4</b>	<b>25</b>		
<b>GRAND TOTAL</b>	<b>70</b>		
<b>Percentage = <math>\frac{x}{70} \times 100</math></b>			
<b>ASSESSMENT OUTCOME</b>			
The candidate was found to be:			
Competent <input type="checkbox"/>	Not yet Competent <input type="checkbox"/>		
<i>(Please tick as appropriate)</i>			
<i>(The candidate is competent if the candidate obtains at least 50%)</i>			
<b>Feedback from the Candidate:</b>			

<b>Feedback to the Candidate:</b>	
<b>Candidate Signature</b>  _____	<b>Date:</b>  _____
<b>Assessor's Signature</b>  _____	<b>Date</b>  _____

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