

071305T4ELC

ELECTRONICS ENGINEERING LEVEL 5

ENG/OS/ET/CR/01/5/A

Perform Electrical Installation

March/April2025



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

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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

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
1. Wore Personal Protective Equipment <ul style="list-style-type: none"> • Safety boots (<i>Award 1 or 0</i>) • Dust coat(<i>Award 1 or 0</i>) 	1 1		
2. Observed good housekeeping practices <ul style="list-style-type: none"> • Ensured clean working area before starting working (<i>Award 1 or 0</i>) • Maintained a tidy working area arrangement (<i>Award 1 or 0</i>) • Proper waste disposal (<i>Award 1 or 0</i>) 	1 1 1		
Sub-total	5		
TASK 1: Wiring Diagram			
3. Drew the installation-wiring diagram as per the schematic diagram provided. <ul style="list-style-type: none"> i. The C.C.U (<i>Award 2 or 0</i>) ii. Main earth terminal(<i>Award 2 or 0</i>) iii. Lighting (<i>Award 1 or 0 for each bulb</i>) iv. Power socket outlets(<i>Award 3 or 0</i>) v. Earthing (<i>Award 3 or 0</i>) 	2 2 3 3 3		
Sub-Total	12		

TASK 3: Circuit Installation			
<p>4. Installed the final circuit.</p> <p>i) Proper utilization of the installation board. <i>(Award 3 or 0 for $\frac{3}{4}$ of the board)</i></p> <p>ii) Used correct measurement as provided; <i>Dimensions clearance; $\pm 2mm$</i> <i>(Award 1 or 0 mark for each measurement section)</i></p> <p>iii) Fixed components</p> <p>i. Level <i>(Award 1 or 0 for each of the three bulb holders, socket and the joint box)</i></p> <p>ii. Firmness <i>(Award 1 or 0 for each of the three bulb holders and the socket)</i></p> <p>iv) Observed correct color codes <i>(Award 2 or 0)</i></p> <p>v) Selected correct cable sizes corresponding to type of load as per IEE regulations. <i>(Award 2 or 0)</i></p> <p>vi) Used correct tool for the correct purpose</p> <ul style="list-style-type: none"> • Cable stripper <i>(Award 2 or 0)</i> • Multimeter <i>(Award 2 or 0)</i> • Spirit level <i>(Award 2 or 0)</i> 	<p>3</p> <p>12</p> <p>4</p> <p>4</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>		
<p>5. Fixed sheathed cable flat on the surface</p> <p>i. Horizontal <i>(Award 2 or 0)</i></p>	<p>2</p>		

ii. Vertical (Award 2 or 0)	2		
6. Spaced cable clips uniformly (Award 2 or 0)	2		
7. Performed proper terminations for final sub-circuits(firm, folded) with correct cable color codes;			
i. C.C.U ((Award 3 or 0)	3		
ii. Lamps (Award 2 or 0)	2		
iii. Switches (Award 2 or 0)	2		
iv. Socket outlets (Award 2 or 0)	2		
Sub-total	48		
TASK 3: Testing			
8. Performed the following tests			
i. Continuity test (Award 3 or 0)	3		
ii. Insulation resistance test (Award 4 or 0)	4		
iii. Polarity test on the lighting circuit. (Award 3 or 0)	3		
Sub-total	10		
TASK 4: Functionality Test			
9. Correct circuit operation			
i. Socket (Award 5 marks)	5		
ii. Switch 1(Award 5 marks)	5		
iii. Switch 2(Award 5 marks)	5		
Sub-total	15		
GRAND TOTAL	90		
Percentage = $\frac{X}{90} \times 100$			

ASSESSMENT OUTCOME	
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet Competent <input type="checkbox"/></p> <p><i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i></p>	
Feedback from the Candidate:	
Feedback to the Candidate:	
Candidate Signature _____	Date: _____
Assessor's Signature _____	Date _____

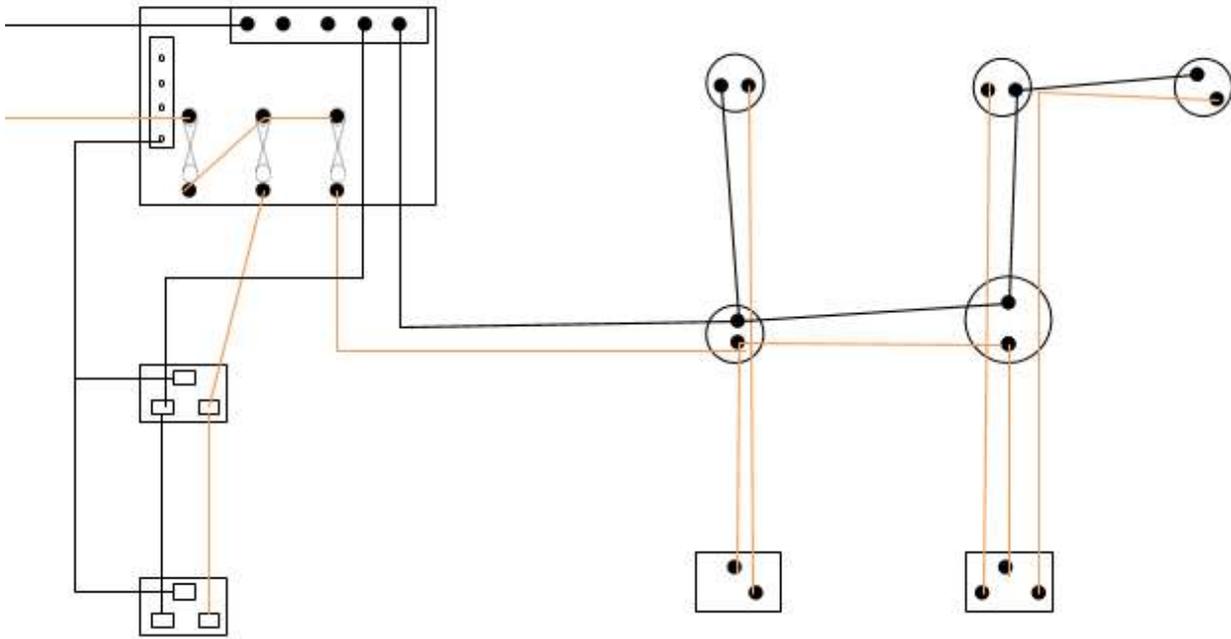


Figure 1: Wiring Diagram

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