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071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/OS/PO/CR/03/5

Install Electrical Machines

July/August 2025

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: *Please award marks as appropriate. Give a brief comment on your observation.*	**Marks Available**	**Marks Obtained**	**Comments**
Wore Personal Protective Equipment. i. Dustcoat/Overall (**Award 1 or 0**) ii. Safety boots (**Award 1 or 0**)	**1** **1**		
Applied housekeeping practice. i. Ensured clean working area before beginning working. (**Award 1 or 0**) ii. Tidy working area arrangement (**Award 1 or 0**) iii. Proper Waste disposal (**Award 1 or 0**)	**1** **1** **1**		
Sub-Total	**5**		
TASK 1			
Drew wiring diagram as per layout diagram. i. Isolator switch (**Award 2 or 0**) ii. At the contactors (**Award 2 or 0 each correct connection 1 mark**) iii. Start-Stop button(**Award 2 or 0**) iv. Motor terminals (**Award 2 or 0**)	**2** **3** **2** **2**		
Sub- Total	**8**		
TASK 2			

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Fixed components i. Level (**Award 1or 0**) ii. Firmness (**Award any 4 x ½)** iii. Correct measurement ±2*mm* (**Award 1 or 0)**	**1** **2** **1**		
Terminated cables (Twisted, Folded, Firm and not nicked) at: i. Isolator switch (**Award 2 or 0**) ii. Contactors (**Award 2 or 0**) iii. Start-Stop button (**Award 2 or 0**) iv. Terminal box **(Award 2 or 0**)	**2** **2** **2** **2**		
Carried out correct wiring connection at i. Contactors (**Award 2 or 0**) ii. Start-Stop button (**Award 2 or 0**) iii. Motor terminal box (**Award 2 or 0**)	**2** **2** **2**		
Sub-Total	**18**		
TASK 3			
Performed tests : i. Continuity test(**Award 2 or 0**) ii. Polarity test(**Award 2 or 0**) iii. Earth resistance test(**Award 2 or 0**)	**2** **2** **2**		
Sub-Total	**6**		
TASK 4			
Functionality of the installed system i. Start-Stop button (**Award 5 or 0**) ii. Running motor (**Award 5 or 0**)	**5** **5**		

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Sub-Total	**10**		
GRAND TOTAL	**47**		

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:

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Candidate Signature **Date:**

_____ _____

Assessor's Signature **Date**

_____ _____

APPENDIX: WIRING DIAGRAM



