071306T4ELC

ELECTRONICS ENGINEERING LEVEL 6

ENG/OS/ET/CR/01/6

Perform Electrical Installation

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

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**
1	Wore personal protective equipment i. Dustcoat / Overall *(Award 1 or 0)* ii. Safety boots *(Award 1 or 0)*	 **1** **1**		
2	Applied housekeeping practice **i.** Tidy working area arrangement *(Award 1 or 0)*	 **1**		
3	Proper use of tools, equipment and materials i. Measuring equipment *(Award 1 or 0)* ii. Cutting tools *(Award 1 or 0)* iii. Fixing tools *(Award 1 or 0)*	 **1** **1** **1**		
4	Observed colour code *(Award 1 or 0)*	**1**		
	Sub-Total	**7**		
	TASK 1			
5	Drew wiring diagram as per the layout diagram i. Connection at the CCU *(Award 2 or 0)* ii. Socket outlet *(Award 4 or 0)* iii. Lighting *(Award 5 or 0)*	 **2** **4** **5**		
	Sub-Total	**11**		
	TASK 2			
6	Materials estimate			

	(*Award any 8×$\frac{1}{2}$ for any correct materials*)	**4**		
	Sub-Total	**4**		
	TASK 3			
7	Good utilization of the installation board i. Layout *(Award 2 or 0)* ii. Measurement (±2mm) *(Award any 8×$\frac{1}{2}$)*	 **2** **4**		
8	Cable terminations (firm and no naked exposed) i. C.C.U *(Award 2 or 0)* ii. Switches *(Award 3 or 0)* iii. Lamps *(Award 2 or 0)* iv. Socket outlets *(Award 3 or 0)*	 **2** **3** **2** **3**		
9	Fixed components i. Level *(Award any 8×$\frac{1}{2}$)* ii. Firmness (*Award any 4×$\frac{1}{2}$*)	 **4** **2**		
10	PVC conduits bends and connections i. Horizontal fixed (*Award 2 or 0)* ii. Vertical fixed *(Award 2 or 0)* iii. 90^0 Bend *(Award 1 or 0 for each)* iv. 45^0 Bend *(Award 2 or 0)*	 **2** **2** **3** **2**		
11	Correct wiring at i. C.C.U *(Award 2 or 0)* ii. Switches *(Award 1 or 0 for each)* iii. Lamp *(Award 1 or 0 for each lamp)* iv. Ring Socket outlet with a spur *(Award 3 or 0)*	 **2** **3** **2** **3**		
	Sub-Total	**41**		
	TASK 4			
12	Perform tests			

	i. Polarity test on lighting circuit *(Award 3 or 0)* ii. Continuity test on ring sockets *(Award 3 or 0)*	**3** **3**		
	Sub-Total	**6**		
	TASK 5			
13	Correct circuit operation i. Switches (*Award 1 mark for each switch*) ii. Socket outlet (*Award 1 mark for each socket*)	**3** **3**		
	Sub-Total	**6**		
	GRAND TOTAL	**75**		
	Percentage = $\frac{x}{75} \times 100$			

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**

_____ _____

APPENDIX: WIRING DIAGRAM (to be printed for the assessor only)