071306T4EIN Electrical Installation Level 6 ENG/OS/PO/CR/01/6 Perform Electrical Installation July/ August 2023



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

# PRACTICAL ASSESSMENT TIME: 3 HOURS

## INSTRUCTIONS TO THE ASSESSOR

- 1. You are required to mark the practical as the candidate performs the tasks.
- 2. You are required to take video clips at critical points.
- 3. Ensure the candidate has a name tag and registration code at the back and front.

This guide consists of five (5) printed pages.

Assessor should check the guide to ascertain that all the pages are printed as indicated and that no questions or answers are missing.

### ©2023 TVET CDACC

## **OBSERVATION CHECKLIST**

Candidate's name & Registration No.				
Assessor's name & Reg. code				
Unit(s) of Competency				
Venue of Assessment				
Date of assessment				
(Award marks appropriately as guided for in the items for	r evaluatio	on indicated	d. Give a brief comment	
where necessary)				
Items to be evaluated:	Marks	Marks	Comments	
Temb to be evaluated.	allocated	obtained	comments	
OBSERVATION CHECKLIST				
1. Wore Personal Protective Equipment				
• Dustcoat/Overall (Award 1 or 0)	1			
• Safety boots (Award 1 or 0)	1			
2. Applied good housekeeping practices				
• Ensured clean working area before beginning	1			
working. (Award 1 or 0)				
• Tidy working area arrangement (Award 1 or 0)	1			
• Proper waste disposal (Award 1 or 0)	1			
3. Identified and correct use of tools and equipment				
• Multi-meter (Award 1 or 0)	1			
• Phase tester (Award 1 or 0)	1			
• Pliers (Award 1 or 0)	1			
• Screw drivers (Award 1 or 0)	1			
• 20 mm bending spring (Award 1 or 0)	1			
• Wire stripper (Award 1 or 0)	1			
4. Observed colour code (Award 1 or 0)	1			
Sub total	12			

PRODUCT CHECKLIST				
TASK	K 1			
4. Drew wiring diagram as per layout diagram				
• Intake point (Award 1 mark for each	4			
equipment; total 4 marks)				
• Main earth terminal (Award 1 or 0)	1			
• Lighting (Award 2 mark or 0 for each lamp)	2			
• DP switch (Award 1 mark or 0)	1			
• 240V 3 pin industrial socket	1			
(Award 1 mark or 0)				
Sub-Total	9			
TASH	K 2			
5. Terminated cables correctly (twisted, folded, firm				
and not nicked)	on			
• Cut – out (Award 1 or 0)	1			
• Energy meter (Award 1 or 0)	1			
• Switch fuse (Award 1 or 0)	1			
• DP switch CB (Award 1 or 0)	2			
• Switches (Award 1 mark for each switch)	1			
• Lamp (Award 1 mark for each lamp)	2			
6. Wired the following correctly				
• $Cut - out$ (Award 1 or 0)	1			
• Energy Meter (Award 2 or 0)	2			
• Switch fuse (Award 2 or 0)	2			
• C.C.U (Award 2 or 0)	2			
Sub- total	15			
TASK 3				
7. Utilized installation board properly				
• Layout (Award 1 or 0)	1			

8. Measurements $\pm 2$ mm (Award any 4 x $\frac{1}{2}$ )	2				
9. Fixed components					
• Level (Award any $4 \times \frac{1}{2}$ )	2				
• Firmness (Award any $4 x \frac{1}{2}$ )	2				
• Uniform spacing of open saddles vertical					
and horizontal (Award 2 or 0)	2				
10. Conduit bend and connection					
• 90° Bend (Award 1 or 0 for each bend)	3				
• 45° Bend (Award 1 for each bend)	2				
• Offset (Award 1 or 0 for each offset)	2				
• Connection with Male and female bushes					
(Award 2 or 0)	2				
11. Wired the components correctly at:					
• Industrial socket (Award 1 or 0)	off 1				
• Switches (Award 1 or 0 for each switch)	2				
• Lamp (Award 1 or 0 for each lamp)	2				
Sub - Total	23				
TASI	TASK 4				
12. Correct circuit operation;					
a) C.C.U (Award 3 or 0)	3				
b) Switches (Award 3 or 0)	3				
c) Fluorescent fitting (Award 3 or 0)	3				
d) Bulb (Award 3 or 0)	3				
e) Industrial socket (Award 3 or 0)	3				
Sub - Total	15				
GRAND TOTAL	74				
<b>Percentage</b> = $\frac{X}{74}$ X 100					

### ©2023 TVET CDACC

ASSESMENT OUTCOMES					
The candidate was found to be: (Please tick ( $$ ) as appropriate)					
Competent		Not yet competent			
(The candidate is competent if s/he gets 50% of the marks)					
Feedback from candidate:					
Feedback to candidate:					
Candidate's signature:	Date:				
Assessor's signature:	Date:				

## WIRING DIAGRAM

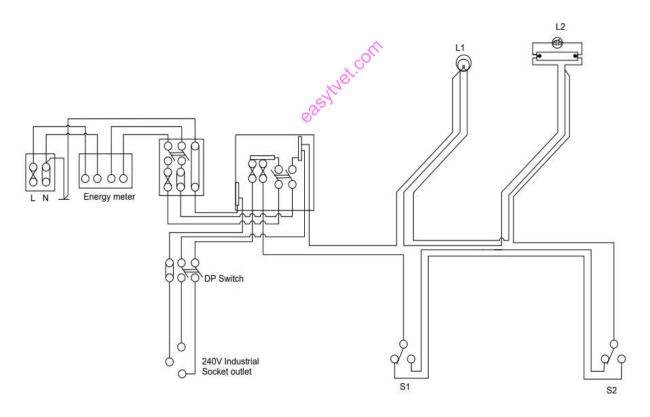


Figure 1: Wiring diagram

### THIS IS THE LAST PRINTED PAGE