

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/01/6

PERFORM ELECTRICAL INSTALLATION

July/August 2024



OBSERVATION CHECKLIST

INSTRUCTIONS TO ASSESSOR

1. Ensure all the materials and equipment are provided.
2. You are required to mark the practical as the candidate performs 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.

This guide consists of SIX (6) 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.

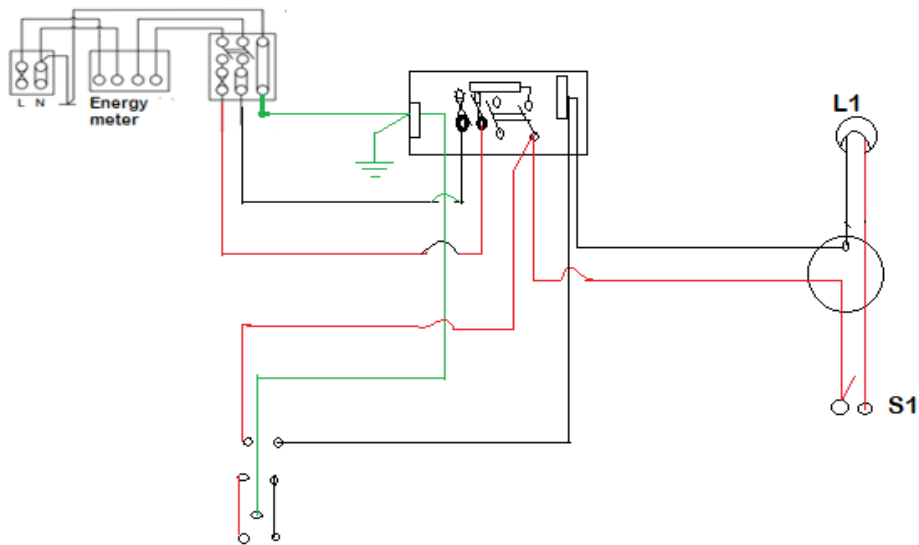
Candidate's name & Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
Items to be evaluated: (Award appropriate marks for each item evaluated)	Marks available	Marks obtained	Comments
OBSERVATION CHECKLIST			
1. Wore safety clothing			
(a) Safety boots (Award 1 or 0)	1		
(b) Apron (Award 1 or 0)	1		
2. Observed color code (Award 1 or 0)	1		
3. Used correct tool for correct purposed (Award 2 or 0)	2		
Sub total	5		
PROJECT 1:			
TASK 1: Wiring Diagram			
4. Drew correct wiring diagram of the final circuits			
(a) Lighting (Award 4 or 0)	4		
(b) Cooker (Award 4 or 0)	4		
Sub total	8		
TASK 2: Installation			
5. Dimensioned correctly $\pm 2\text{mm}$ (Award any 3×1)	3		
6. Fixed components(firm and level)(Award any 4×1)	4		
7. Bent Conduit (smooth with no kinks)	2		

90° bends (<i>Award any 2×1</i>)			
8. Terminated Conduit (firm and level)			
(a) Horizontal (<i>Award 1 or 0</i>)	1		
(b) Vertical (<i>Award 1 or 0</i>)	1		
9. Connected correctly the following			
(a) Lighting circuit (<i>Award 2 or 0</i>)	2		
(b) Cooker circuit (<i>Award 2 or 0</i>)	2		
Sub total	14		
TASK 3: Testing			
10. Performed continuity test on the lighting circuit (<i>Award 3 or 0</i>)	3		
11. Correct circuit operation			
i. Lighting(<i>Award 5 or 0</i>)	5		
ii. Cooker(<i>Award 5 or 0</i>)	5		
Total marks	13		
PROJECT 2			
TASK 1: Wiring Diagram			
12. Drew correct wiring diagram			
• Bell circuit (<i>Award 5 or 0</i>)	5		
Total marks	5		
TASK 2: Installation			
13. Dimensioned correctly $\pm 2\text{mm}$ (<i>award any 2×1</i>)	2		
14. Fixed components(firm and level) (<i>award any 3×1</i>)	3		

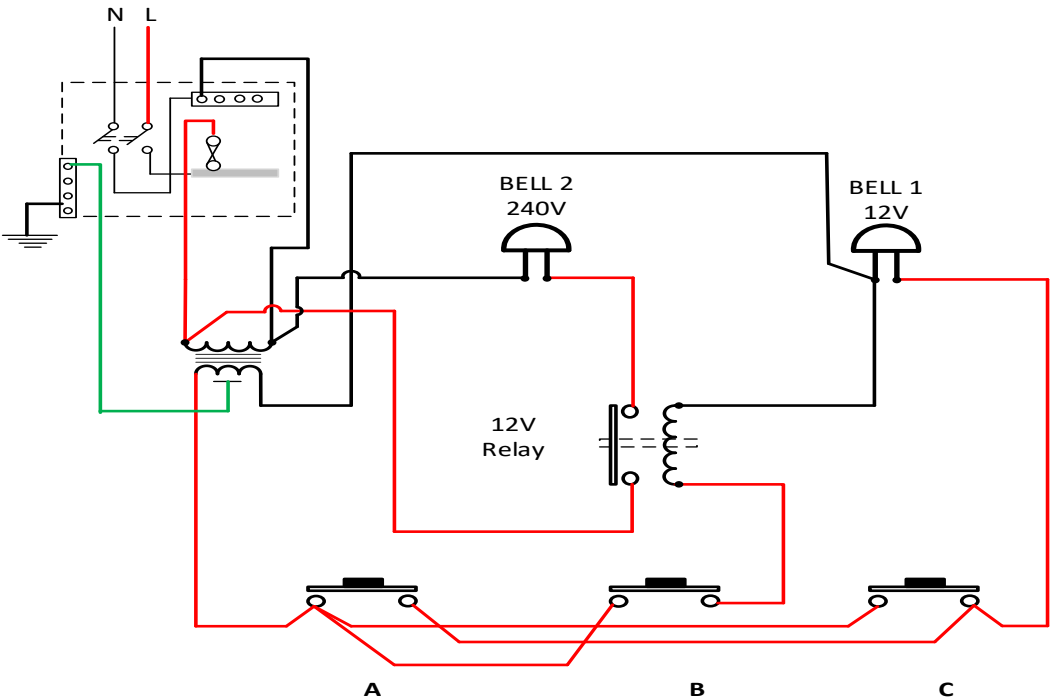
15. Fixed Sheathed cable flat on the surface (a) Horizontal (<i>Award 2 or 0</i>) (b) Vertical (<i>Award 2 or 0</i>)	2 2					
16. Spaced Cable clips uniformly (<i>Award 1 or 0</i>)	1					
17. Terminated cable correctly (twisted, folded firm and not nicked) and correct circuit connections at: (a) C.C.U (<i>Award 1 or 0</i>) (b) Transformer (<i>Award 1 or 0</i>) (c) Push buttons (<i>Award 1 or 0</i>) (d) Relays (<i>Award 2 or 0</i>) (e) Bells (<i>Award 2 or 0</i>)	1 1 1 2 2					
Sub Total	17					
Task 3: Testing						
18. Performed i. Polarity test (<i>Award 2 or 0</i>) ii. Continuity test (<i>Award 2 or 0</i>)	2 2					
Total marks	4					
GRAND TOTAL	66					
Percentage = $\frac{x}{66} \times 100$						
The candidate was found to be: (Please tick (√) as appropriate)						
Competent ☐	Not yet competent ☐					
The candidate is competent if s/he gets scores 50% of marks						
Feedback from candidate:						
Feedback to candidate:						

Candidate's signature:	Date	
Assessor's signature:	Date	

WIRING DIAGRAM FOR PROJECT 1



WIRING DIAGRAM FOR PROJECT 2



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