

072203T4SPV

SOLAR PV INSTALLATION LEVEL3

ENG/OS/SPV/CR/04/3

Maintain Solar PV System

July/ August 2025



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

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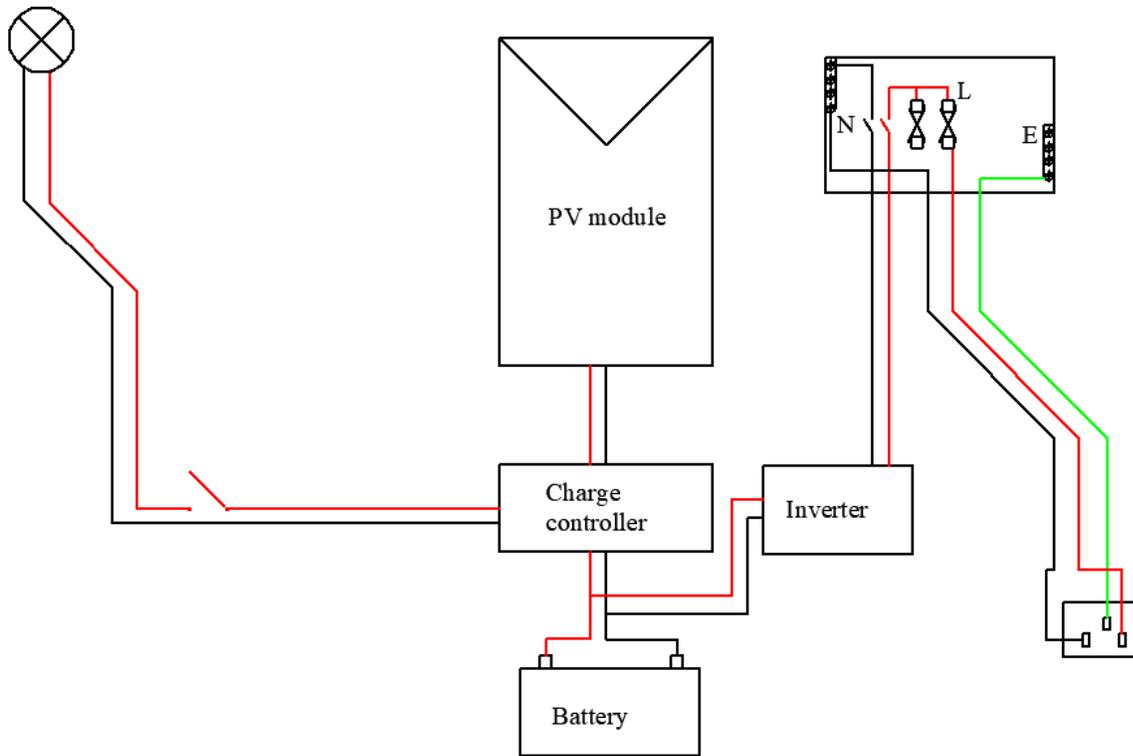
CUTTING LIST

INSTRUCTIONS TO THE INSTITUTION:

1. **Preinstall the circuit as indicated in Figure 1 below, using PVC conduits.**
2. **The circuit should be installed, one for each candidate.**

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Figure 1: Solar PV circuit diagram for the preinstalled circuit



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CUTTING LIST FOR THE PREINSTALLED CIRCUIT.

S/NO	ITEMS	QUANTITY (per candidate)	PROVIDED BY
1.	50W solar module	1	Institution
2.	50Ah solar battery	1	
3.	10/20A charge PWM controller	1	
4.	300W inverter	1	
5.	Complete 4-way CCU	1	
6.	1 gang 1 way switch	1	
7.	Straight batten lamp holder	1	
8.	10V/5W lamp	1	
9.	20A plastic socket outlet	1	
10.	Shallow single pattress	2	
11.	Installation board (1.5M x 1.5M)	1	

12.	1 inch gypsum screw	Enough	
13.	1.5mm ² single live cable	2 Meters	
14.	1.5mm ² single neutral cable	1.5 Meters	
15.	2.5mm ² single live cable	1 Meter	
16.	2.5mm ² single neutral cable	1 Meter	
17.	2.5mm ² single earth cable	1 Meter	
18.	4.0mm ² single live cable	1 Meter	
19.	4.0mm ² single neutral cable	1 Meter	
20.	4.0mm ² single earth cable	1 Meter	
21.	Battery crocodile clips, R/B	2	
22.	Multimeter	1 per 3 candidates	
23.	Spirit level	1	
24.	PVC conduits	1 pc	
25.	PVC saddles	Enough	

CUTTING LIST FOR CANDIDATE.

S/NO	ITEMS	QUANTITY (per candidate)	PROVIDED BY
1.	Fluorescent fitting	1	Institution
2.	Foolscap	2	
3.	Gypsum screws	Enough	
4.	1 inch gypsum screw	Enough	
5.	1.5mm ² single live cable	2 Meters	
6.	1.5mm ² single neutral cable	1.5 Meters	
7.	2.5mm ² single live cable	1 Meter	
8.	2.5mm ² single neutral cable	1 Meter	
9.	2.5mm ² single earth cable	1 Meter	
10.	Battery crocodile clips, R/B	2	
11.	Multimeter	1 per 3 candidates	
12.	Spirit level	1	

13.	PVC conduits	1 Pc	Candidate
14.	PVC saddles	Enough	
15.	PVC T joints	2	
16.	Multimeter	1	
17.	IR tester	1	
18.	Tester	1	
19.	Hack saw blade	1	
20.	Screw drivers	1	
21.	Spirit levels	1	
22.	Pliers	1	
23.	Tape measure	1	
24.	Claw hammer	1	
25.	Spirit level	1	

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