

**072205T4SPV**

**SOLAR PV INSTALLATION ASSISTANT LEVEL 4**

**ENG/OS/PVI/CR/04/4**

**Install DC and AC Solar Photovoltaic System**

**July/August 2025**



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

*easyvet.com*

**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 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 on the back and front

## OBSERVATION CHECKLIST

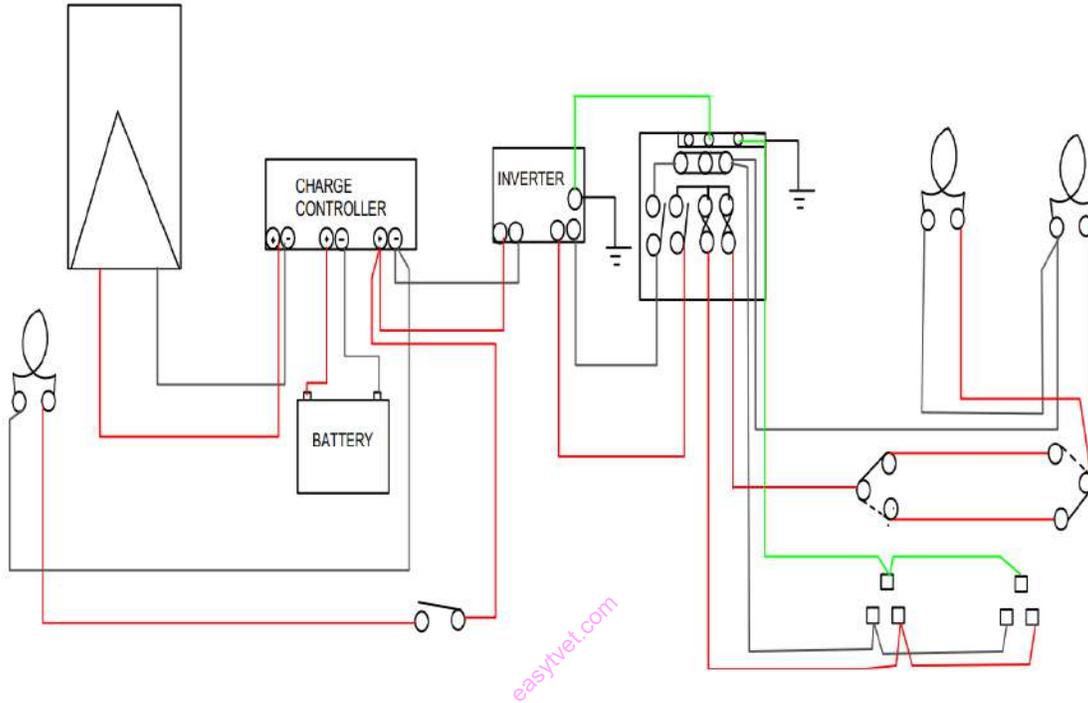
<b>Candidate's Name &amp; Registration Code</b>			
<b>Assessors Name &amp; Registration Code</b>			
<b>Venue of Assessment</b>			
<b>Date of Assessment</b>			
<b>Items to be Evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	<b>Marks Available</b>	<b>Marks Obtained</b>	<b>Comments</b>
1. Wore Personal Protective Equipment  i. Dustcoat/Overall ii. Safety boots iii. Safety glasses/goggles <i>(Award 1 mark each)</i>	  <b>1</b> <b>1</b> <b>1</b>		
2. Applied housekeeping practices  i. Ensured clean working area before beginning working. ii. Tidy working area arrangement iii. Proper waste disposal <i>(Award 1 mark each)</i>	  <b>1</b> <b>1</b> <b>1</b>		
3. Identified the required tools and equipment  i. Pliers ii. Screw drivers iii. Hacksaw iv. Spirit level v. Ball pein hammer <i>(Award 1 mark each)</i>	  <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>		
<b>Sub-total 1</b>	<b>11</b>		
<b>TASK 1</b>			

4. Drew the wiring diagram			
i. Correct sequence of the PV components	4		
ii. Consumer control unit	4		
iii. DC lighting system	4		
iv. AC lighting system	4		
v. Socket outlets	4		
<i>(Award 4 or 0 marks each)</i>			
<b>Sub-Total 1</b>	<b>20</b>		
<b>TASK 2</b>			
5. Mounted components correctly (firm and level)			
i. Solar module	1		
ii. Charge controller	1		
iii. Inverter	1		
iv. battery	1		
v. Consumer control unit	1		
vi. Pattresses	1		
<i>(Award 1 or 0 mark each)</i>			
6. Installed P.V.C mini-trunking system			
i. Neat (without gaps)			
<i>(Award 2 or 0 marks)</i>	2		
ii. 90° bends			
<i>(Award any 2 × 1 marks)</i>	2		
iii. 45° bends			
<i>(Award any 2 × 1 marks)</i>	2		
7. Circuit termination.			
i. Charge controller	2		
ii. Inverter	2		

iii. battery	2		
iv. Consumer control unit	2		
v. Switches	2		
i. Lighting points	2		
ii. Socket outlets	2		
iii. Junction box	2		
iv. Earthing	2		
<i>(Award 2 or 0 marks each)</i>			
8. Connected the circuit.			
i. Solar PV system components	3		
ii. Consumer control unit	3		
iii. A.C lighting system	3		
iv. D.C lighting system	3		
v. Socket outlets	3		
<i>(Award 3 or 0 marks each)</i>			
<b>Sub-Total 2</b>	<b>45</b>		
<b>TASK 3</b>			
9. Conducted necessary tests.			
i. Polarity test	4		
ii. Continuity test	4		
<i>(Award 4 or 0 marks each)</i>			
10. Tested the circuit for proper operation.			
i. P.V system	4		
ii. D.c lighting circuit	4		
iii. A.c lighting circuit	4		
iv. Socket outlets	4		
<i>(Award 4 or 0 marks each)</i>			

<b>Sub-Total 3</b>	<b>24</b>		
<b>GRAND TOTAL</b>	<b>100</b>		
<b>ASSESSMENT OUTCOME</b>			
<p>The candidate was found to be:</p> <p style="text-align: center;">             Competent <input type="checkbox"/>                                                  Not yet Competent <input type="checkbox"/> </p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>			
<b>Feedback from the Candidate:</b>			
<b>Feedback to the Candidate:</b>			
<b>Candidate Signature</b>		<b>Date:</b>	
_____		_____	
<b>Assessor's Signature</b>		<b>Date</b>	
_____		_____	

**APPENDIX: PRINT FOR THE ASSESSOR(S) ONLY**



*WIRING DIAGRAM 1*