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072203T4SPV

SOLAR PV INSTALLATION LEVEL 3

ENG/OS/SPV/CR/01/3

Conduct Solar PV Site Survey

July/August 2025

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

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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 for evidence
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**
OBSERVATION CHECKLIST			
1. Observed safety awareness i. Safety boots $(Award\ 0\ or\ 1)$ ii. Apron$(Award\ 0\ or\ 1)$ iii. Proper handling of tools $(Award\ 0\ or\ 1)$ iv. Proper handling of equipment $(Award\ 0\ or\ 1)$ v. Housekeeping and waste disposal $(Award\ 0\ or\ 1)$	1 1 1 1 1		
TASK 1: Conducted a site survey			
2. Assessed roof type, condition, orientation and the dimensions i. Identified roof condition ii. Identified light obstruction to the solar module iii. Measured the light angle to the module iv. Measured light intensity v. Measured distances from the module to other components *(Award 2 marks or 0 each)*	2 2 2 2 2		
3. Assessed ground properties i. Acidity of the soil ii. Wetness of the soil *(Award 2 marks or 0 each)*	2 2		

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4. Identified exact solar module location i. Solar module angle of inclination ii. Solar module angle of illumination *(Award 2 marks or 0 each)*	2 2		
5. Measured components loads and wattages i. Measured PV module illuminance ii. Measured battery DC input voltage iii. Measured invertor AC output voltage *(Award 1 mark or 0 for each)*	1 1 1		
6. Identified exact mounting points of other system components i. Battery ii. Charge controller iii. Inverter *(Award 2 marks or 0 each)*	2 2 2		
7. Estimated the daily load to the system i. power rating of the appliances ii. Conducted user interview *(Award 2 marks or 0 each)*	2 2		
Sub-Total 1	**36**		
TASK 2: Prepare site survey report			
8. Title and date *(Award 2 marks or 0)*	2		
9. Information about system components i. PV modules ii. Charge controller iii. Batteries iv. Inverter	1 1 1 1		

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v. Materials vi. Appliances *(Award 1 mark or 0 for each)*	1 1		
10. Information about system parameters i. Measurements in length ii. Appliances ratings *(Award 1 mark or 0 for each)*	 1 1		
11. Recommendations (*Award 2 marks or 0)*	2		
12. Conclusion (*Award 2 marks or 0)*	2		
Sub-Total 2	**14**		
GRAND TOTAL	**50**		
$\frac{X}{50} \times 100$			

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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** _____

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