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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)

PRACTICAL ASSESSMENT

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Time: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks

TASK 1: Conduct a site survey for installation of a solar PV system to power a 24V system supplying power to a 50W DC floodlight and one socket to power a 30Watt equipment in your workshop. Carry out the following activities.

i. Assess roof type, orientation and the dimensions
ii. Assess ground properties
iii. Identify the exact solar modules mounting location
iv. Measure system components power loads and wattages

v. Identify the exact position of other mounted components i.e. inverter, charge controller, battery

vi. Estimate daily power load for the whole system

TASK 2: Prepare site survey report

2. You have been provided with the following resources for the practical tasks:
    - multimeter
    - AC/DC clamp meter
    - Ladder (appropriate height and safety rating)
    - Pyrometer
    - Litmus strips/soil pH Test strips
    - Writing materials
    - Lux meter
    - Metrological data tables
    - Hygrometer
    - Stationery
    - Digging fork
    - Optimal tilt
    - Measuring tape

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