

071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6

ENG/OS/AGR/CR/07/6/A

Apply renewable energy technology in agriculture

March/April 2025



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

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. Assemble a solar lighting system.
2. You have been provided with the following resources for the practical tasks:
 - Solar panel 20watts.
 - Solar lead acid maintenance free battery, 12 volts.
 - Charge controller 6 Amps.
 - LED DC bulbs.
 - Bulb holders.

- Switches.
- Pattress.
- Wood screws for the bulbs.
- Block board.
- Connecting wire 1.5mm squared for lighting.
- Junction Box.
- Trunking box for panel wires.
- 2inch Nails.
- Holding brackets
- Conduits.
- 2.5mm squared cable for battery termination.
- Insulation tape.
- Safety goggles.
- Hammer
- Pliers
- Screw driver
- Tapping screws
- Multimeter