

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/07/6

Install Solar Systems

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

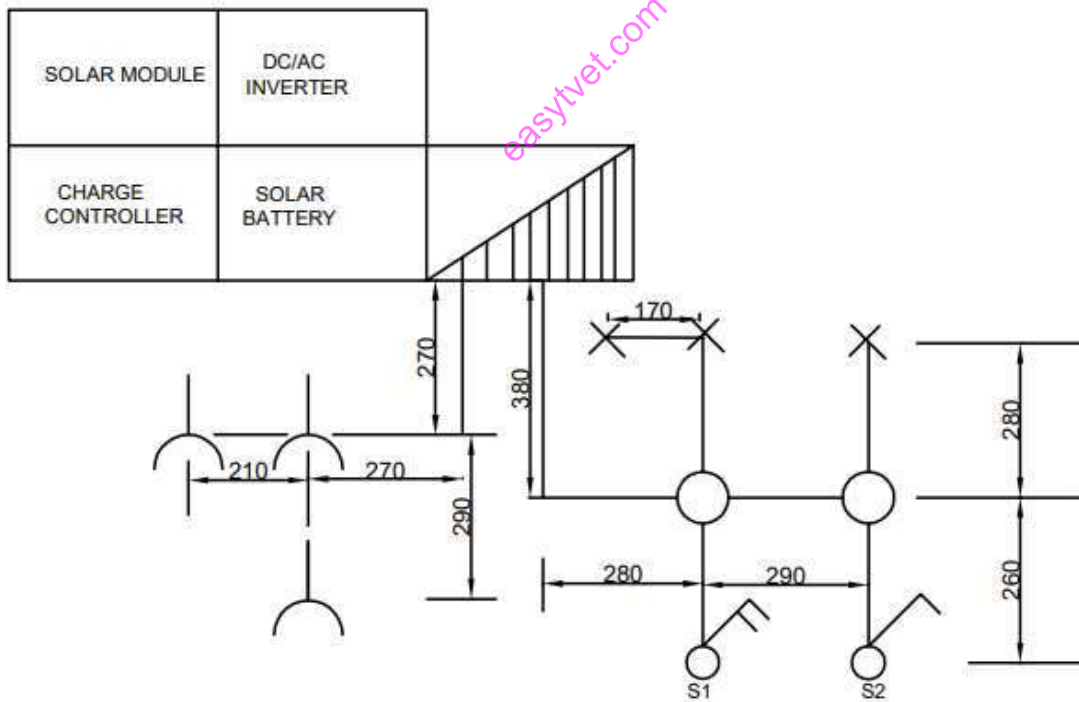
1. You are supposed to perform the following task

TASK: install the solar system below

2. You have been provided with the following resources for the practical tasks:

- i. DC/AC inverter
- ii. Charge Controller
- iii. 12V Solar battery
- iv. 3 50Watts lamps
- v. 2 One gang one-way switches
- x. 2 Joint boxes
- vi. 1.5mm PVC cable
- vii. 2.5mm PVC cable
- viii. Trunking
- ix. Cable clips

3: You are required to perform the following tasks



- i. Draw the wiring diagram for the installation
- ii. Complete the wiring of the solar module, the control gear and connect it to the consumer unit.
- iii. Using PVC sheathed wiring system, complete the installation and ensure that;

- a. Switch S_1 controls lamp L_1 & L_2 and switch S_2 controls L_3
 - b. Socket outlets are wired in radial
- iv. Carry out the following tests:
- a. Insulation resistance test
 - b. Continuity test

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