

071305T4EOP

ELECTRICAL OPERATION LEVEL 5

ENG/OS/PO/CR/01/5/A

Perform Electrical Installation

March/April 2025



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

PRACTICAL ASSESSMENT

TIME: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. Do not write on the question paper.
2. A separate plain paper will be provided.
3. DO NOT switch ON power without assessor's permission.
4. Return the question paper to the assessor at the end of practical.

This paper consists of THREE (3) printed pages.

Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Figure 1 shows a layout diagram of lighting and socket final circuits.

Carry out the following tasks:

TASK 1: Draw a well labeled wiring diagram such that:

- i. Lamps L_1 and L_2 are controlled from switches S_1 , S_2 and S_3
- ii. Socket outlets are wired in radial

TASK 2: Using PVC heavy gauge conduit, install and wire the circuit for correct operation

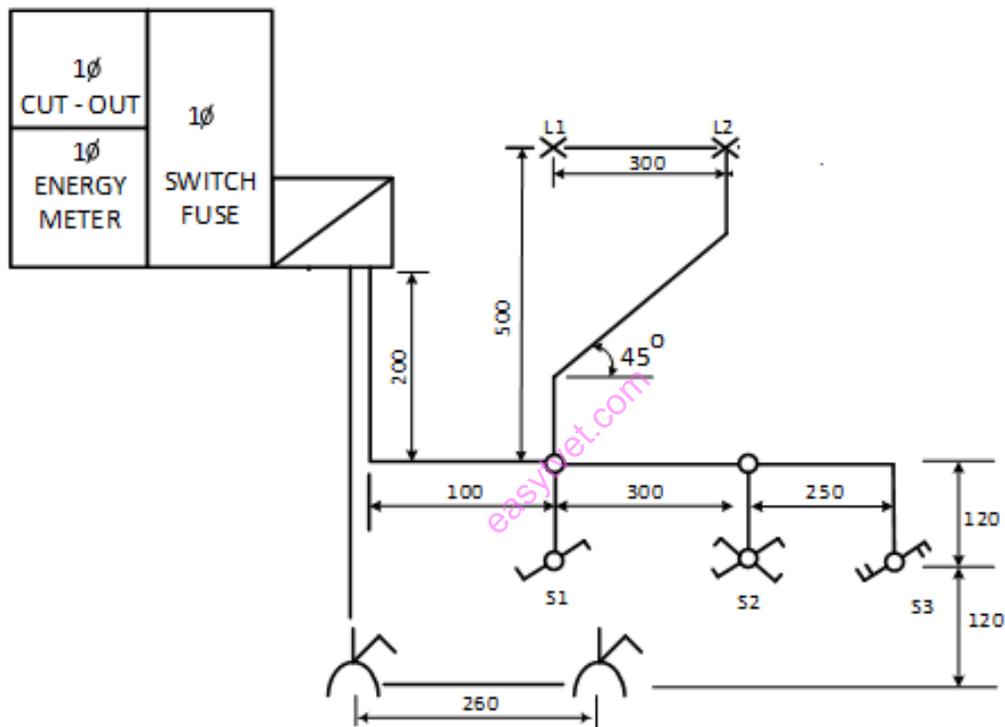


Figure 1

TASK 3: Perform the following:

- i. Continuity test;
- ii. Polarity test;
- iii. Power the circuit for correct operation.

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

- 1.5 mm² singles R/B/G
- 2.5mm² singles R/B/G
- 4.0 mm² singles R/B/G

- 4-way consumer control unit
- 1-phase Energy meter
- 100A cut out
- Switch fuse
- 10A circuit breaker
- 16A circuit breaker
- 20 mm PVC conduit
- PVC switch boxes
- End box PVC
- T-box PVC
- Angle box PVC
- Through-box PVC
- Switch boxes PVC
- PVC male & female bushes
- 1 gang Two-way switch
- 2 gang Two-way switch
- Intermediate switch
- 13A socket outlet
- Lamp holders
- Spacer bar saddles PVC
- Wood screws $\frac{1}{4}$ "
- 1.2M X 0.6M installation board

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