

061906T4TEL

TELECOMMUNICATION ENGINEERING LEVEL 6

ENG/OS/TLE/CR/01/6/A

Perform Electrical Installation

March/April 2025



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

PRACTICAL ASSESSMENT

RS

INSTRUCTIONS TO CANDIDATE:

1. Do not write on the question paper.
2. A separate plain paper will be provided.
3. Return this paper to assessor at the end of assessment.
4. The assessor will take pictures and videos as you conduct the practical.

1. You are required to perform the following tasks

(a) **TASK 1:** Draw the wiring diagram of the final circuit from Layout in Figure 1

(b) **TASK 2:** Carry out the electrical installation using heavy gauge PVC conduit in such a way that:

- i. Lamp L is controlled from switches S_2 and S_3 through a master switch S_1
- ii. Socket outlets SO_1 and SO_2 form a ring final circuit
- iii. SO_3 is a spur

(c) **TASK 3:** Carry out the following installation tests

- i. Continuity test
- ii. Polarity test

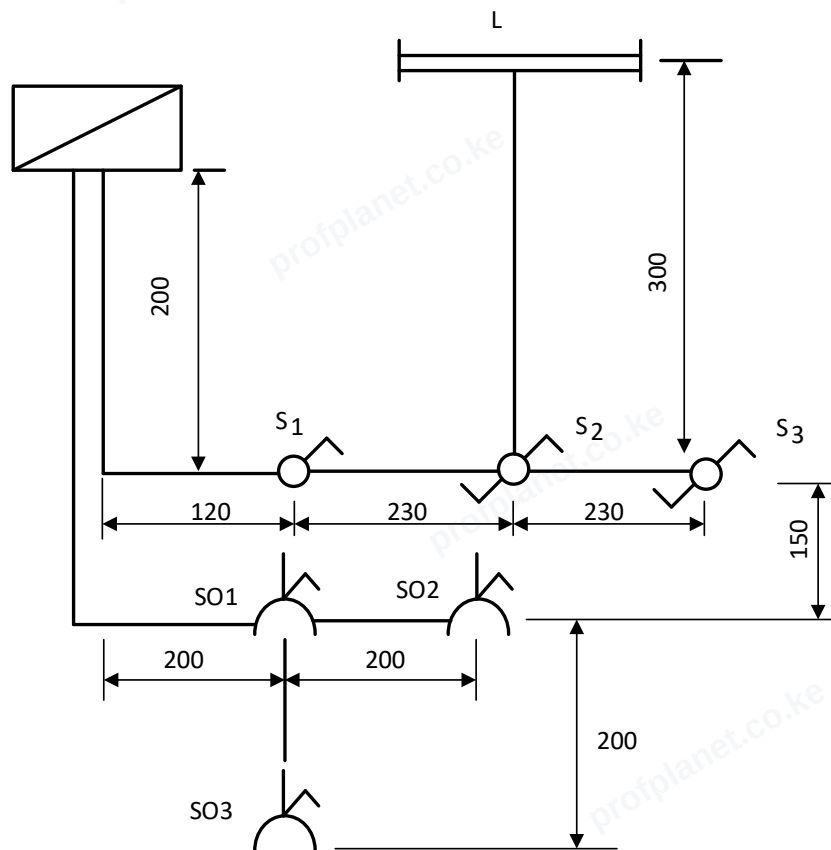


Figure 1

2. You have been provided with the following resources to carry out the tasks:

- (a) 1.5 mm² singles R/B/G
- (b) 2.5mm² singles R/B/G
- (c) 4 way consumer control unit
- (d) Switch fuse
- (e) 6A/10A circuit breaker
- (f) 32A Double Pole Circuit Breaker
- (g) 16A circuit breaker
- (h) 20 mm PVC conduit
- (i) Through-box PVC
- (j) Switch boxes PVC
- (k) 1 gang Two way switch
- (l) 1 gang one way switch
- (m) 13A socket outlet
- (n) Fluorescent Lamp (complete)
- (o) Spacer bar saddles PVC
- (p) Wood screws $\frac{1}{4}$ "
- (q) Multimeter
- (r) 240V AC Power supply
- (s) Bending spring
- (t) Spirit level
- (u) Hacksaw

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