

071305T4ELC

ELECTRONICS ENGINEERING LEVEL 5

ENG/OS/ET/CR/01/5

Perform Electrical Installation

July/August 2025



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

PRACTICE ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:

TASK 1; Draw the wiring diagram for the circuit in Figure 1 such that:

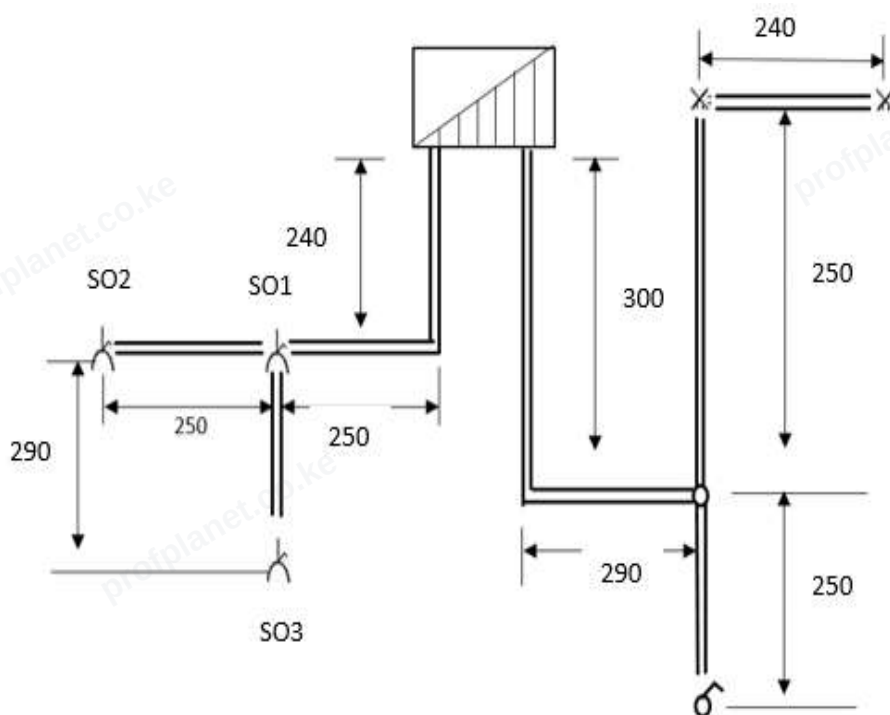
- i) Socket outlets are wired in ring.
- ii) Lamps are controlled from one point.

TASK 2; Install the circuit using PVC mini-trunking

TASK 3; In the presence of the assessor, carry out the following tests:

- i) Continuity test
- ii) Polarity test
- iii) Insulation resistance test

TASK 4; In the presence of the assessor, power the installation and test its functionality.



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

- i. 2.5 mm² PVC single core cables R/B/G
- ii. 1.5 mm² PVC single core cables R/B/G
- iii. Consumer Control Unit (4 way)
- iv. 63A Double pole circuit breaker
- v. 32A Single pole circuit breaker
- vi. 6/10A Single pole Circuit breaker
- vii. Single pole one-way switch
- viii. Straight Lamp holders
- ix. 9W Bulbs
- x. PVC mini trunks
- xi. Switched socket outlets
- xii. Wooden screws (assorted)
- xiii. Junction box
- xiv. Shallow pattress
- xv. 240V AC power supply

- xvi. Multimeter
- xvii. Insulation tester
- xviii. Insulation Tape
- xix. Installation board 1.2m x 1.2m