

**071306T4EEN**

**ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6**

**ENG/OS/PO/CR/01/6**

**PERFORM ELECTRICAL INSTALLATION**

**July /August 2024**

**Time: 5 Hours**



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

**PRACTICAL ASSESSMENT**

**TIME: 5 HOURS**

**INSTRUCTIONS TO CANDIDATE:**

1. Do not write on the question paper
2. DO NOT switch ON power without assessor permission
3. A separate plain paper will be provided
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.**

**PROJECT 1**

Figure 1 shows a layout diagram of lighting and power circuits.

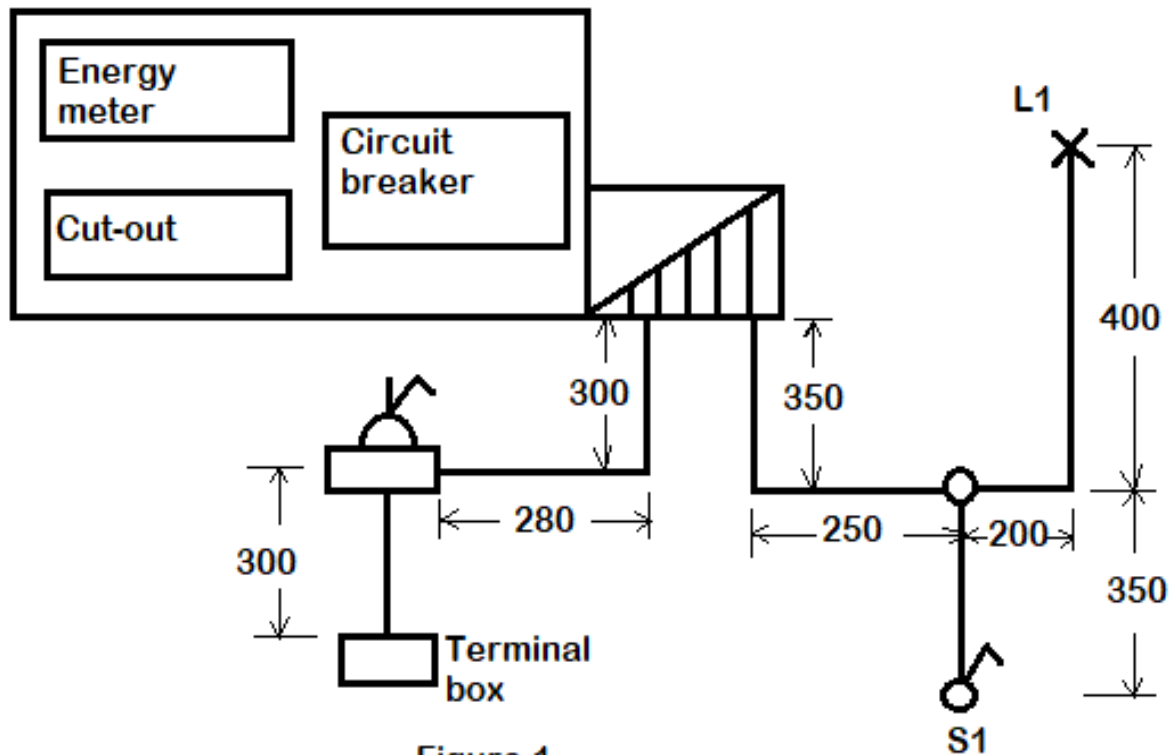
Carry out the following tasks:

**TASK 1:** Draw a wiring diagram of the final circuits such that:

- i. Lamp  $L_1$  is controlled from switch  $S_1$
- ii. Cooker circuit is wired for correct operation

**TASK 2:** Install the two final circuits using heavy gauge PVC conduit:

**TASK 3:** Carry out continuity test on the lighting circuit



**PROJECT 2**

Figure 2 shows a layout diagram of a call and alarm circuit. Push buttons A and C controls 12V bell while push button B controls 240V bell through 12V relay.

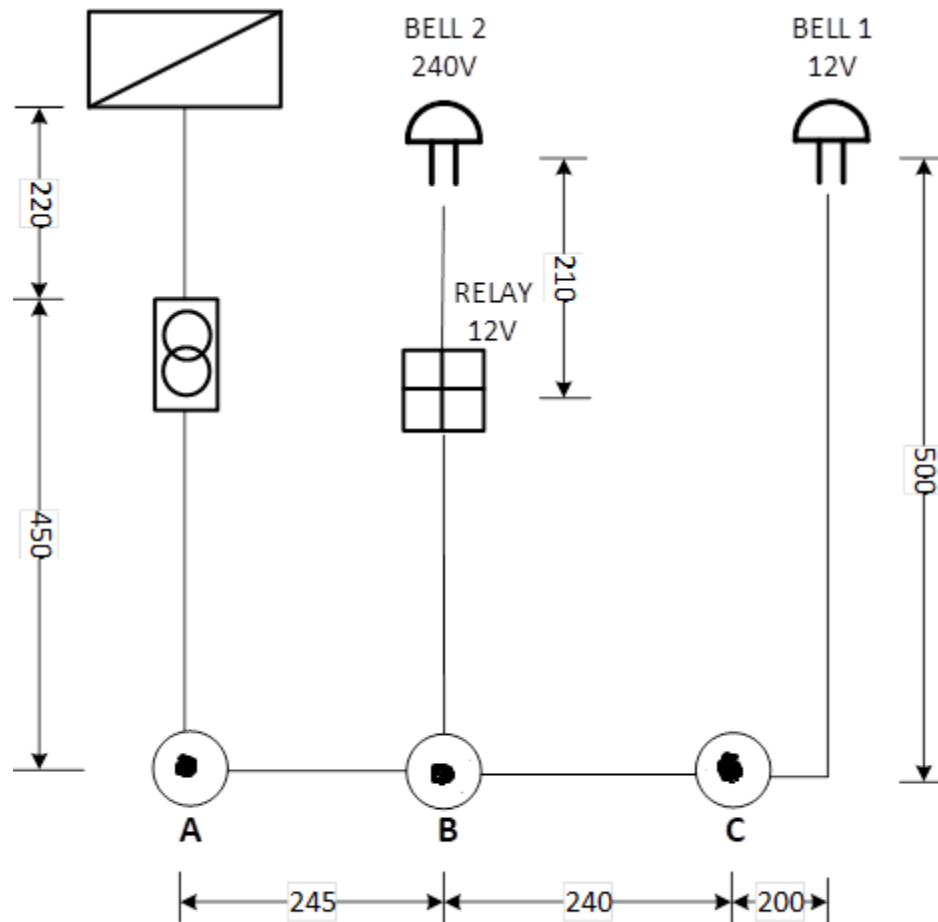
Carry out the following tasks:

**TASK 1:** Draw a neat wiring diagram for the system

**TASK 2:** Install the system for correct operation using PVC sheathed surface wiring in line with the IEEE regulations.

**TASK 3:** Tests the complete installation for:

- (i) Continuity;
- (ii) Polarity.



**Figure 2**

**THIS IS THE LAST PRINTED PAGE.**