

MODULE II

ELECTRICAL INSTALLATION TECHNOLOGY LEVEL 4

ELECTRICAL ENGINEERING LEVEL 5, LEVEL 6

ENG/OS/EI/CR/02/4/MA

PERFORM BELL AND ALARM INSTALLATION

January-March 2026



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

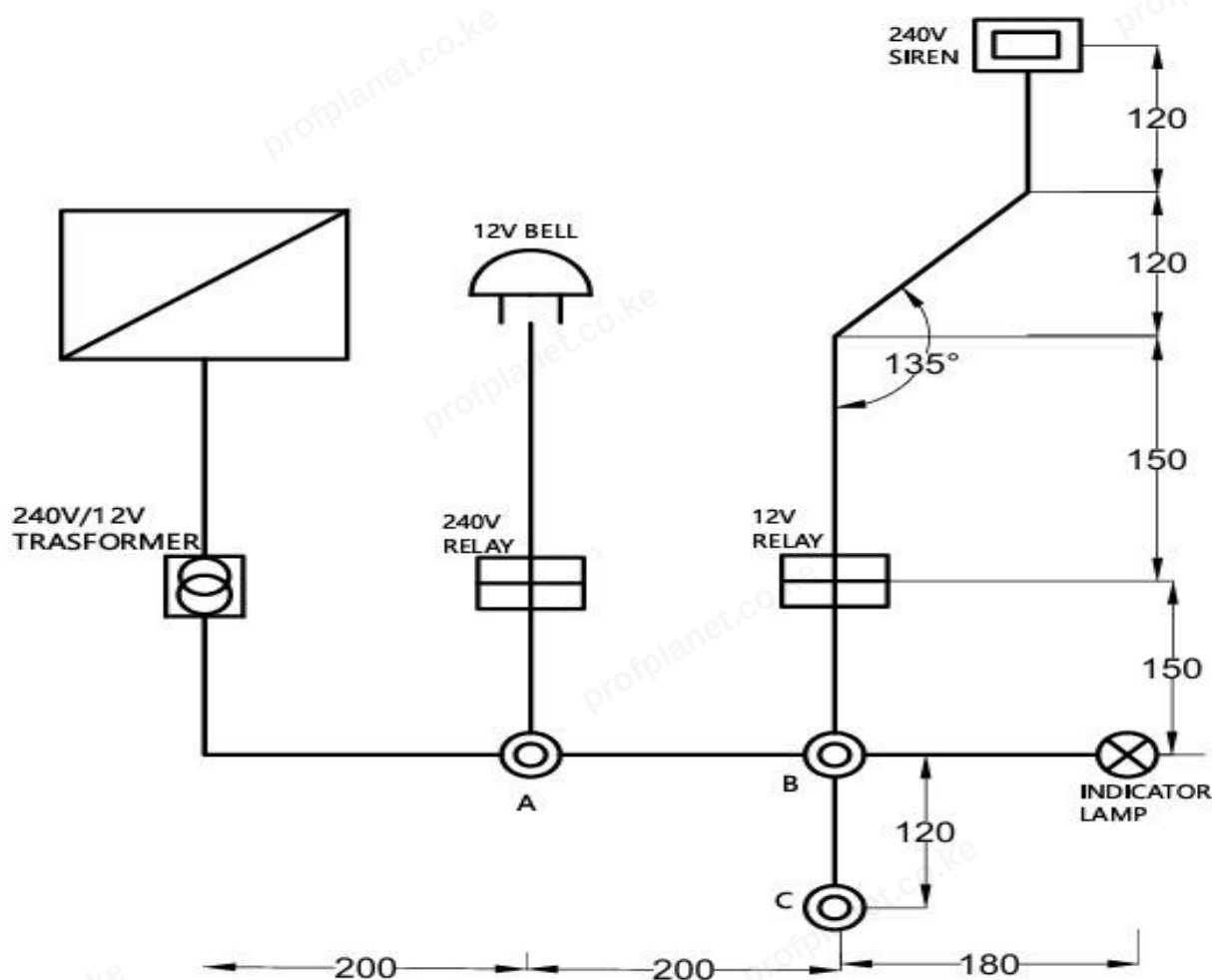
PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE CANDIDATE:

1. This unit of competence shall be assessed in three phases.
2. Each assessment session has the duration included in brackets
3. The third phase of the assessment shall include a practical session and an oral assessment session.
4. The assessor will take photos and videos as you perform the tasks at critical points during the assessment.
5. Ensure all required resources for the assessment have been provided before beginning the assessment.

PRACTICAL ASSESSMENT 2 (4 HOURS) Element covered**1. Install Bell and alarm Components****TASK**Using **Figure 2**:

- i. Draw the wiring diagram such that:
 - Bell push button A and C activates 12V bell through a 240V relay
 - Bell push button B activates the siren through a 12V relay
 - 240V Indicator lamp operates when the siren signals
- ii. Install the circuit.

**Figure 2**

PRACTICAL ASSESSMENT 3 (3 HOURS) AND ORAL ASSESSMENT (1 HOUR) Element covered

1. Test Bell and Alarm installation.
2. Maintain Bell and Alarm installation

TASK

Figure 3 shows a pre-installation layout circuit of a bell and alarm circuit.

- i. Carry out a visual inspection of the pre-installed circuit and make the following changes to the circuit.
 - 12V relay to control 12V bell
 - 240V relay to control 240V Siren
- ii. Perform the following tests
 - Continuity
 - Insulation resistance test
 - Polarity
- iii. Perform bell and siren system functionality

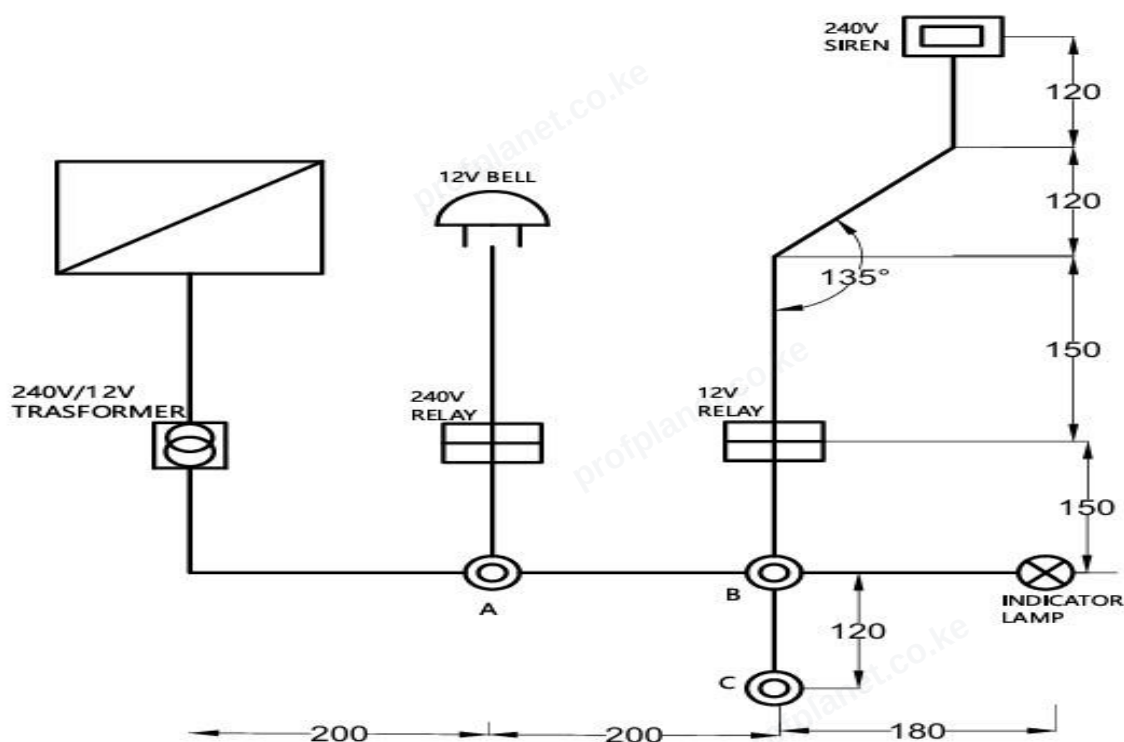


Figure 3

The assessor will proceed to ask the oral questions for 1 hour.