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MODULE II

ELECTRICAL INSTALLATION TECHNOLOGY LEVEL 4, 5 & 6

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

PERFORM BELL AND ALARM INSTALLATION

May-July 2026

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

PRACTICAL ASSESSMENT

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INSTRUCTIONS TO THE CANDIDATE:

1. This unit of competence shall be assessed in two phases.
2. Each assessment session has the duration included in brackets.
3. The second 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.

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PRACTICAL ASSESSMENT 1 (2 HOURS)**Element covered****1. Interpret Bell and alarm Installation drawings****TASK:**

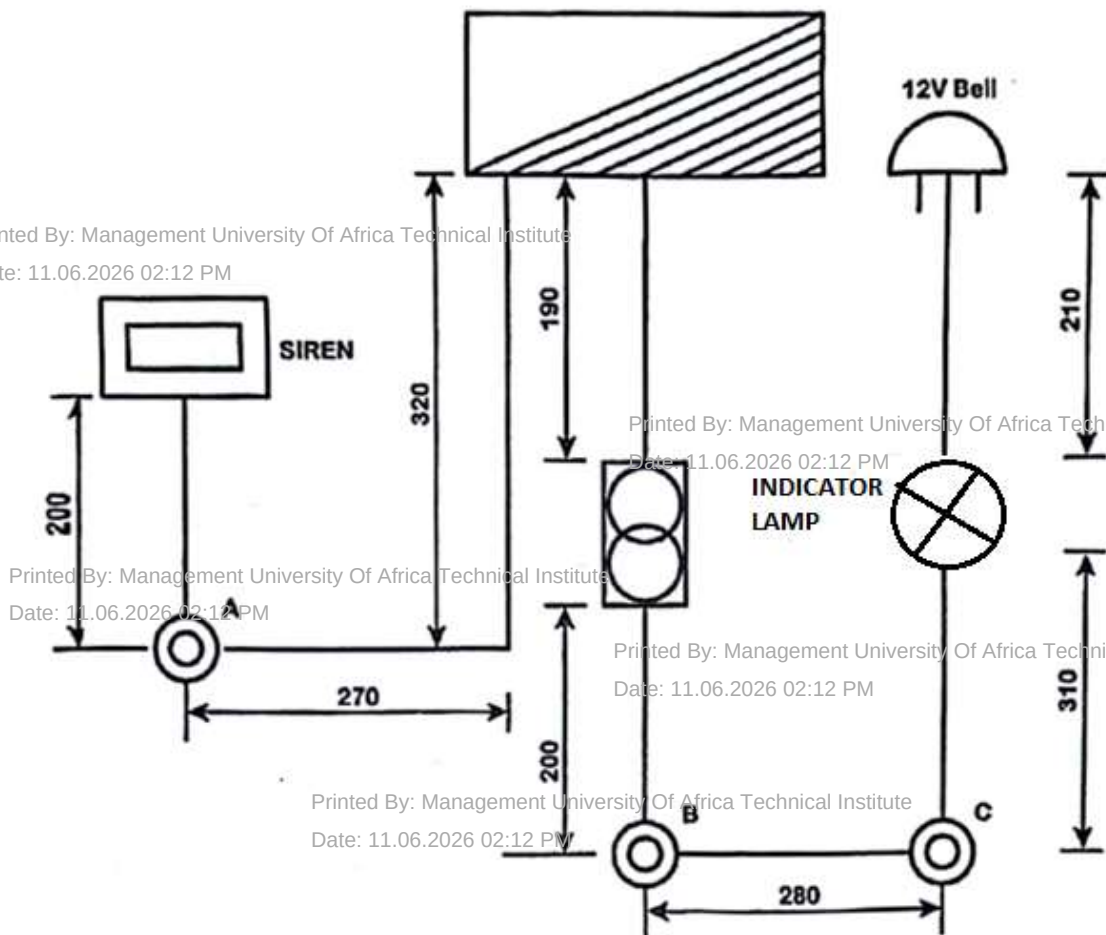
Figure 1 shows the layout of a call and alarm circuit to be installed using surface wiring system

i. Draw the wiring diagram such that:

(a) Push buttons A and B control bell 12V bell. Indicator lamp goes on when the bell rings.

(b) Bell switch A controls the siren

ii. Install the circuit

**Figure 1.**

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

PRACTICAL ASSESSMENT 2 (3 HOURS)

2. Install bell and alarm wiring system

3. Install Bell and alarm Components

TASK

Figure 2 shows the layout of a call and alarm circuit to be installed using a PVC mini-trunking wiring system.

i. Draw the wiring diagram such that:

(a) Push buttons A and B control bell 1 through the 240V relay

(b) Push button C, and cord operated switch D control bell 2 through the 12V relay

(c) Indicator lamp glows when bell 2 is ringing

(d) Siren operates when bell 2 is ringing

ii. Install the bell and alarm wiring system for the circuit.

iii. Install the circuit the bell and alarm components for the circuit.

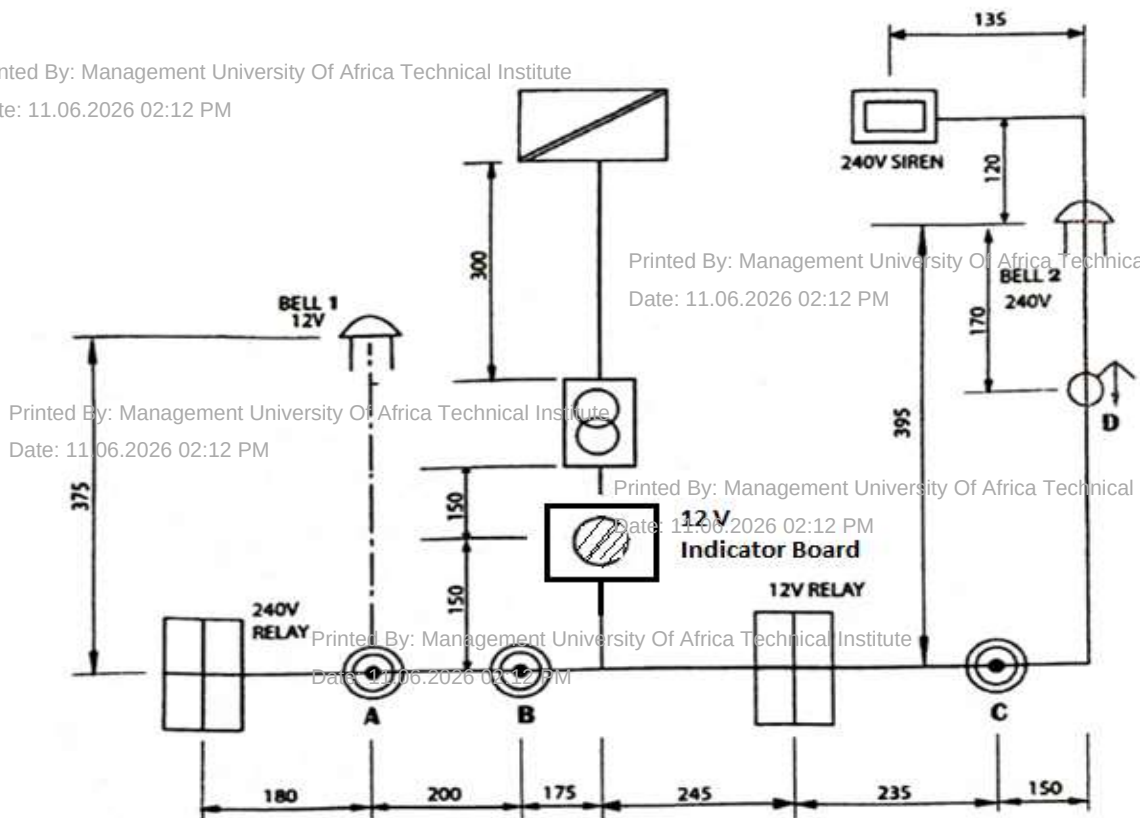


Figure 2

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

PRACTICAL ASSESSMENT 3 (2 HOURS)

Element covered

4. Test Bell and Alarm installation.
5. Maintain Bell and Alarm installation

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TASK

Figure 3 shows the pre-installed layout circuit of a bell and alarm circuit to be installed using PVC sheathed wiring system such that:

- a. Bell push button A controls the bell 1
- b. Bell push button B and C controls the bell 2 through the 240V relay.

- i. Identify correct testing and maintaining tools and equipment.
- ii. Carry out visual inspection of the pre-installed circuit as per IET regulations.
- iii. Perform the following tests

- Continuity
- Insulation resistance test
- Polarity

- iv. Perform bell and siren system functionality

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