

MODULE II

ELECTRICAL INSTALLATION TECHNOLOGY

ENG/OS/EI/CR/02/4/MB

PERFORM BELL AND ALARM INSTALLATION

SEPTEMBER-NOVEMBER 2025



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

PRACTICAL ASSESSMENT

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.

PRACTICAL ASSESSMENT 1 (4 HOURS)

Element covered

1. Interpret Bell and alarm Installation drawings
2. Install bell and alarm wiring system
3. Install Bell and alarm Components

TASK

Using **Figure 1**:

- i. Draw the wiring diagram such that:
 - Push buttons A and B control bell 2
 - Push button C controls bell 1
- ii. Install the circuit.

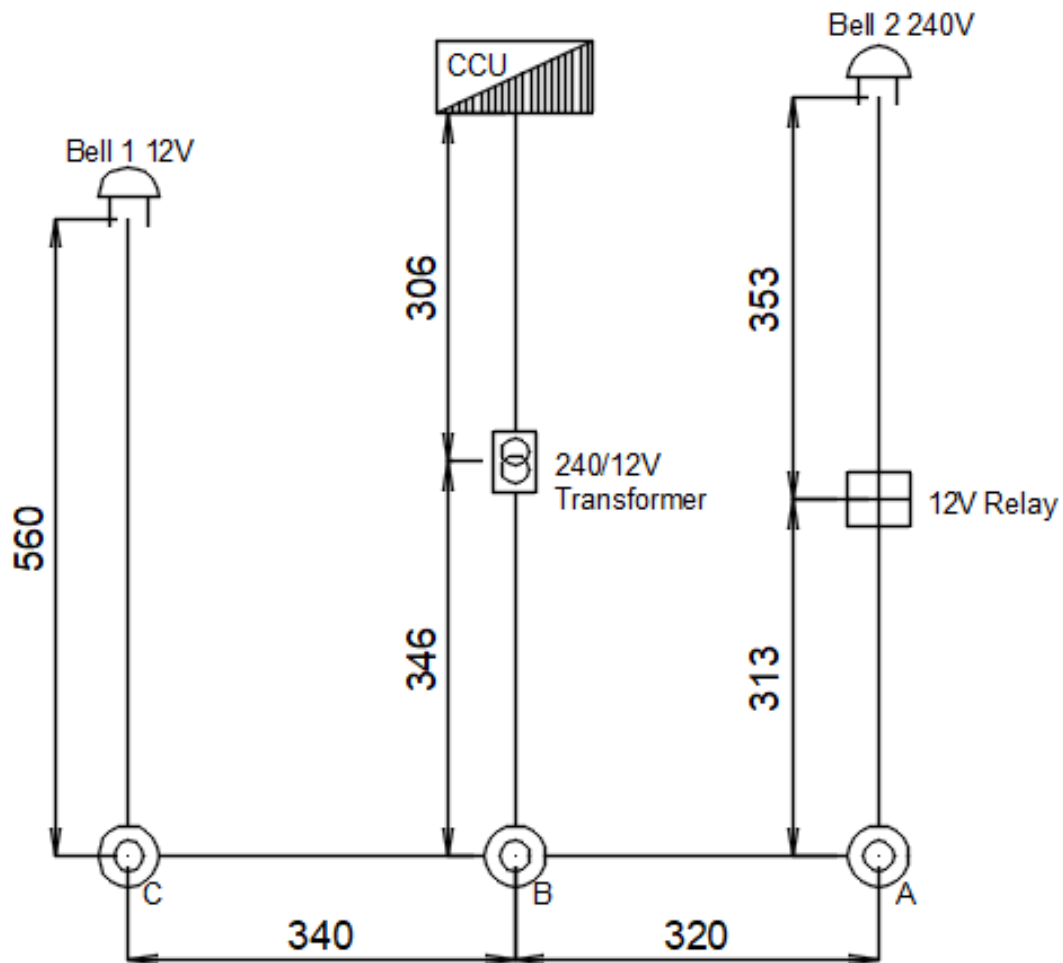


Figure 1

PRACTICAL ASSESSMENT 2 (4 HOURS) AND ORAL ASSESSMENT (1 HOUR)

Element covered

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

TASK

Figure 2 shows a pre-installation layout circuit of a bell and alarm circuit using PVC conduits.

- i. Draw a wiring diagram such that
 - B controls the bell 2 (240V)
 - A and C controls the bell 1 (12V)
- 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

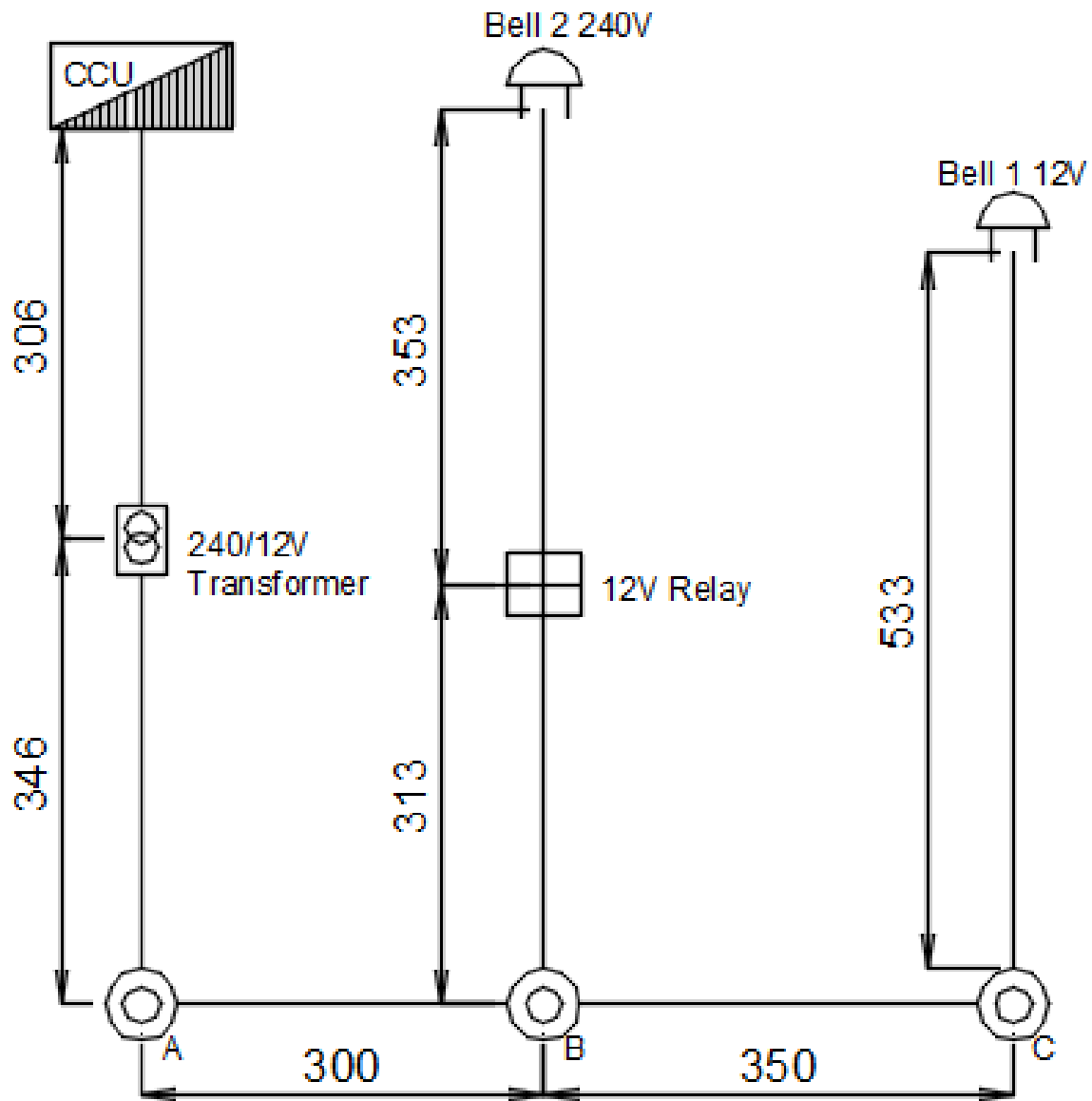


Figure 2

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