

MODULE I

ELECTRICAL INSTALLATION TECHNOLOGY

ENG/OS/EI/CR/03/3/MB

INSTALL CONDUIT SYSTEM

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 (3 HOURS)

Elements Covered

1. Identify conduit accessories
2. Prepare conduit work pieces

Tasks

- i. Cut the metallic conduit into three equal pieces.
- ii. Make 90-degree and 45-degree bends as illustrated in Figure 1.
- iii. Carry out threading as indicated in Figure 1.
- iv. Fit a tee joint as shown in Figure 1.

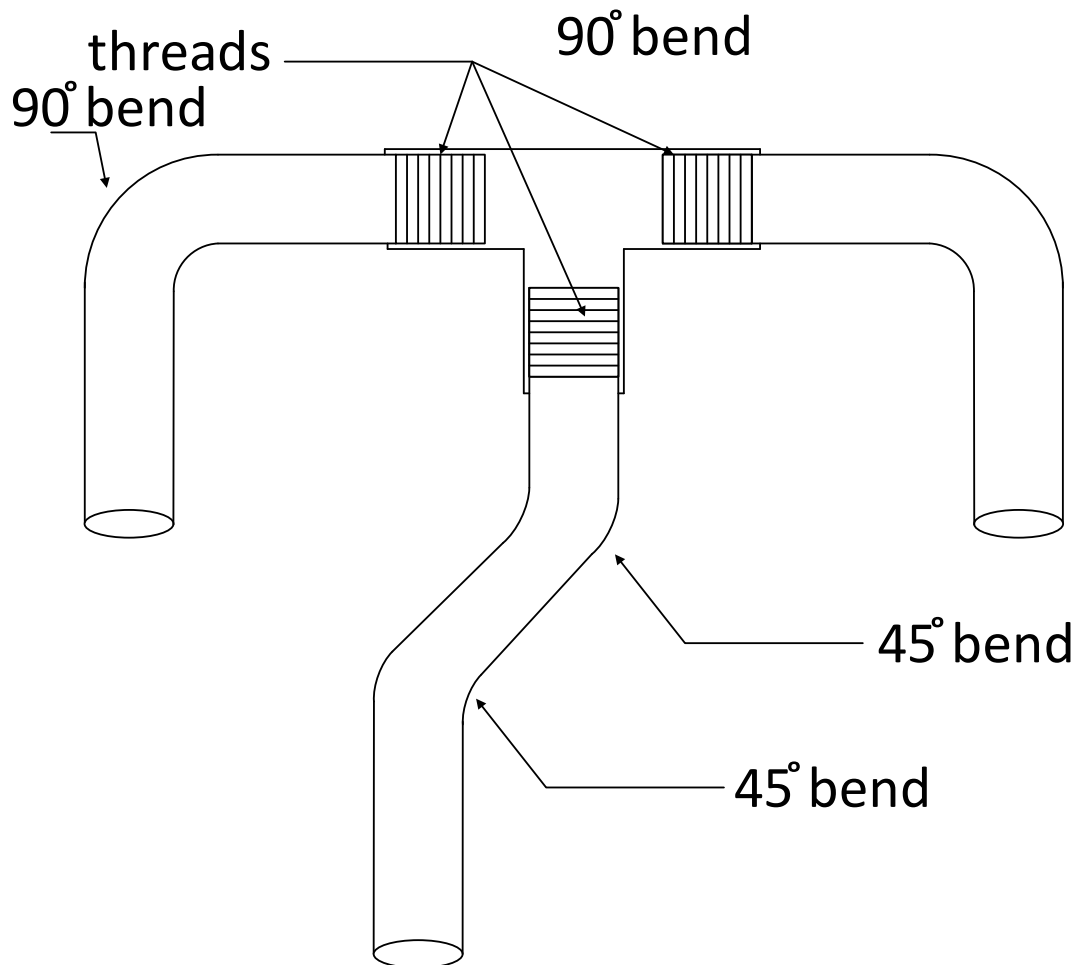


Figure 1

PRACTICAL ASSESSMENT 2 (3 HOURS) AND ORAL ASSESSMENT (1 HOUR)

Elements Covered

1. Mount conduit work pieces
2. Install electrical cables and accessories
3. Perform Tests and Inspection

TASK

- i. Draw the wiring diagram for circuit shown in Figure 2 such that:
 - Switch S1 controls Lamp L1, Switch S3 controls Lamp L3 and Switches S1, S2 and S3 control Lamp L2 independently.
 - Socket outlets SO1 and SO2 are connected in ring with SO3 as the spur.
 - Cooker terminal and cooker socket are installed
- ii. Install the circuit using PVC conduit.
- iii. Perform the following tests on the installed circuit:
 - Visual Inspection
 - Polarity Test
 - Continuity Test
 - Insulation Resistance Test

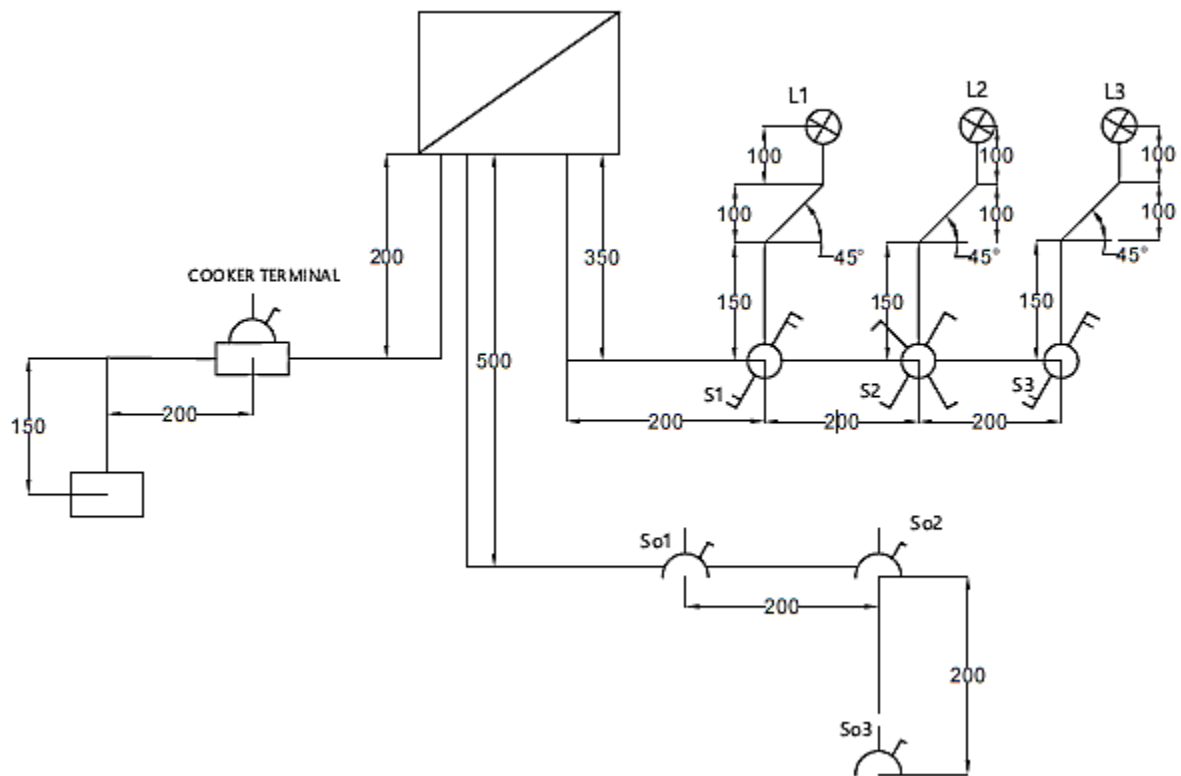


Figure 2

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