

ELECTRICAL INSTALLATION

ENG/OS/EI/CR/01/3/MA

Install PVC Sheathed Cable System

July/August 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 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.
6. All measurements are in millimeters (mm)

PRACTICAL ASSESSMENT 1 (4 HOURS)

Elements Covered:

- Identify Cables and Accessories

Tasks:

1. Identify Electrical cable types and sizes from a variety provided by the assessor
2. Match cable colours to their uses.
3. Identify various accessories from a variety provided by the assessor

PRACTICAL ASSESSMENT 2 (4 HOURS)

Elements Covered:

- Make Cable Joints

Tasks:

1. Make the following cable joints
 - T-Joint
 - Married Joint
 - Straight Twist Joint
2. Insulate and solder the joints
3. Terminate cables using screw terminals and solder-less lugs.

PRACTICAL ASSESSMENT 3 (4 HOURS)

Elements Covered:

1. Interpret electrical symbols
2. Fix electrical accessories
3. Perform Test and Inspection

Tasks:

1. Sketch common electrical symbols
2. Figure 1 shows a layout diagram of the final sub-circuit. Draw a wiring diagram such that switches *S1*, *S2*, and *S3* control lamp *Q* independently
3. Using PVC sheathed cable, install the circuit on an installation board
4. Perform the following tests
 - i. Continuity
 - ii. Polarity

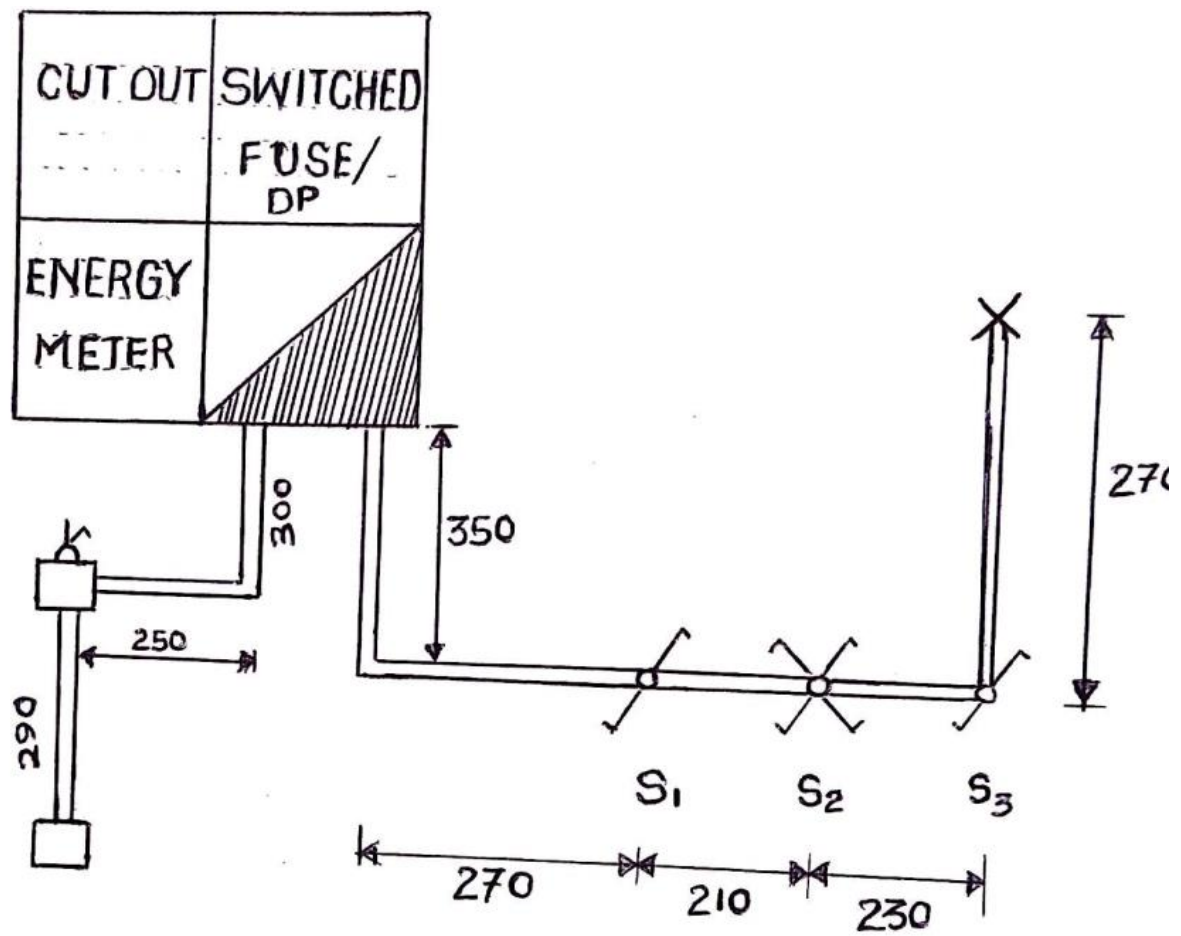


Figure 1