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MODULE I

ELECTRICAL ENGINEERING LEVEL 3,4,5 & 6

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

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INSTALL PVC SHEATHED CABLE SYSTEM

May-August 2026

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

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PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE CANDIDATE:

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

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3. The assessor will take photos and videos as you perform the tasks at critical points during the assessment.

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4. Ensure all required resources for the assessment have been provided before beginning the assessment.

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PRACTICAL ASSESSMENT 1 (1 HOURS)

Elements Covered

1. Identify cables and accessories

Tasks

- i. Identify electrical cable types and sizes
- ii. Match cable colours to their use
- iii. Identify accessories from a variety provided

Date: 11.06.2026 02:16 PM

PRACTICAL ASSESSMENT 2 (2 HOURS)

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Elements Covered

1. Make cable joints
2. Interpret electrical symbols

Tasks:

- i. Make the following cable joints
 - Britannia
 - Married
 - Straight twist
 - Scarf

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- ii. Solder and insulate the joints

- iii. Terminate 4.0 mm² single core cable and 6.0 mm² PVC Single core using cables lugs and insulate with heat shrink sleeve.

Date: 11.06.2026 02:16 PM

PRACTICAL ASSESSMENT 3 (3 HOURS)

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Elements Covered

1. Fix electrical accessories
2. Perform test and inspection

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Tasks

Figure 1 shows the layout of lighting and power final circuits to be wired in PVC sheathed wiring system, such that; Lamp L₂ is controlled from two positions, S₂ and S₃, Lamp L₁ is controlled from switch S₁ and socket outlets are wired in radial.

- i. Draw the wiring diagram for the circuit

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- ii. Install the final circuits on the installation board
- iii. Perform polarity and continuity tests

- iv. Power the circuit for the correct operation

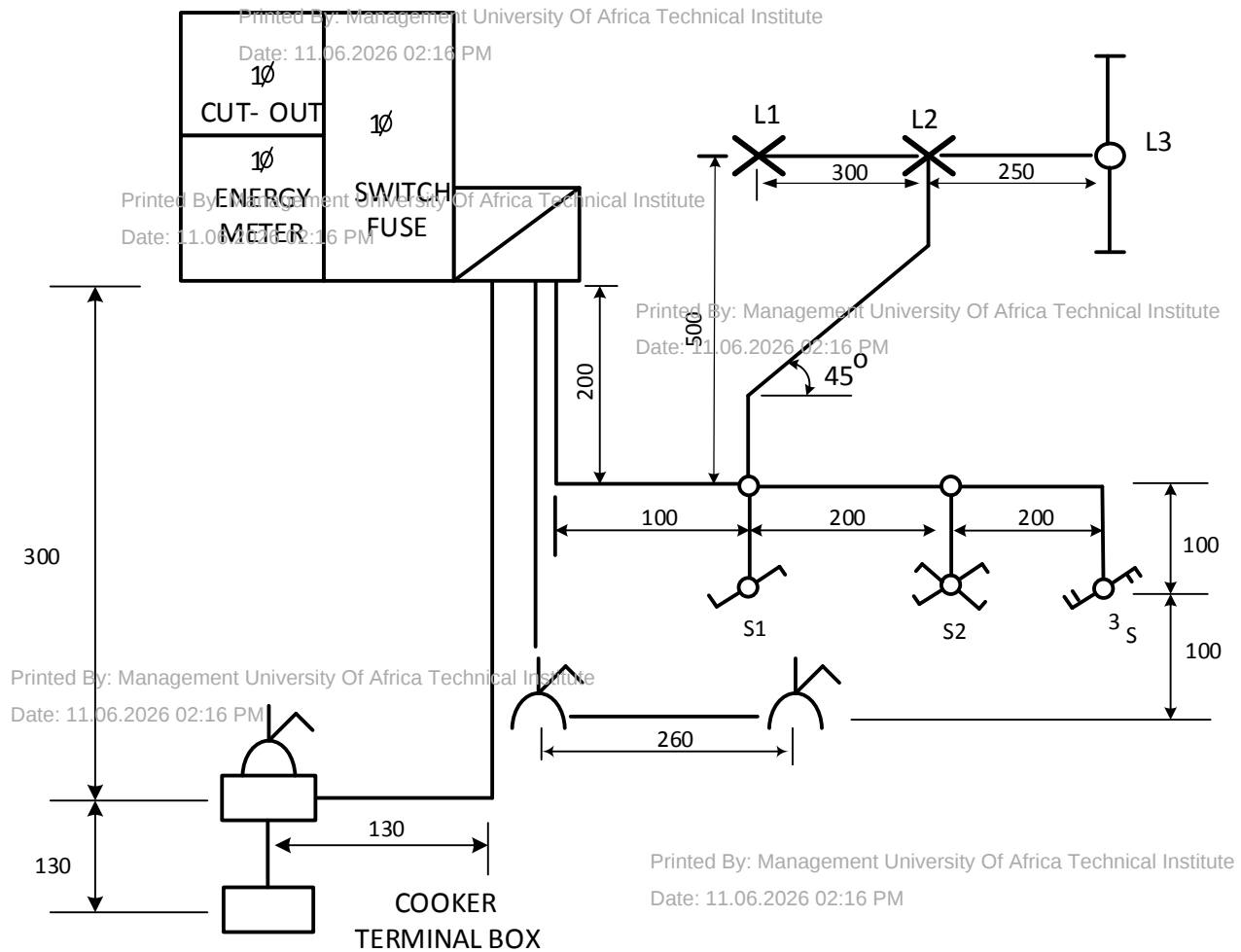


Figure 1