

071605T4MCT

MECHATRONICS TECHNOLOGY LEVEL 5

ENG/OS/MC/CR/01/5/A

Install Mechatronic Systems

March/April 2025



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

PRACT MENT

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INSTRUCTIONS TO CANDIDATE:

1. Figure 1 shows an electrical wiring diagram. You are required to perform the following tasks:

TASK 1: Identify the components.

TASK 2: Using PVC conduit, wire the following circuits as per the wiring diagram on the board;

- i. Lighting system
- ii. Power circuit.

TASK 3: Power the circuit.

TASK 4: Perform housekeeping.

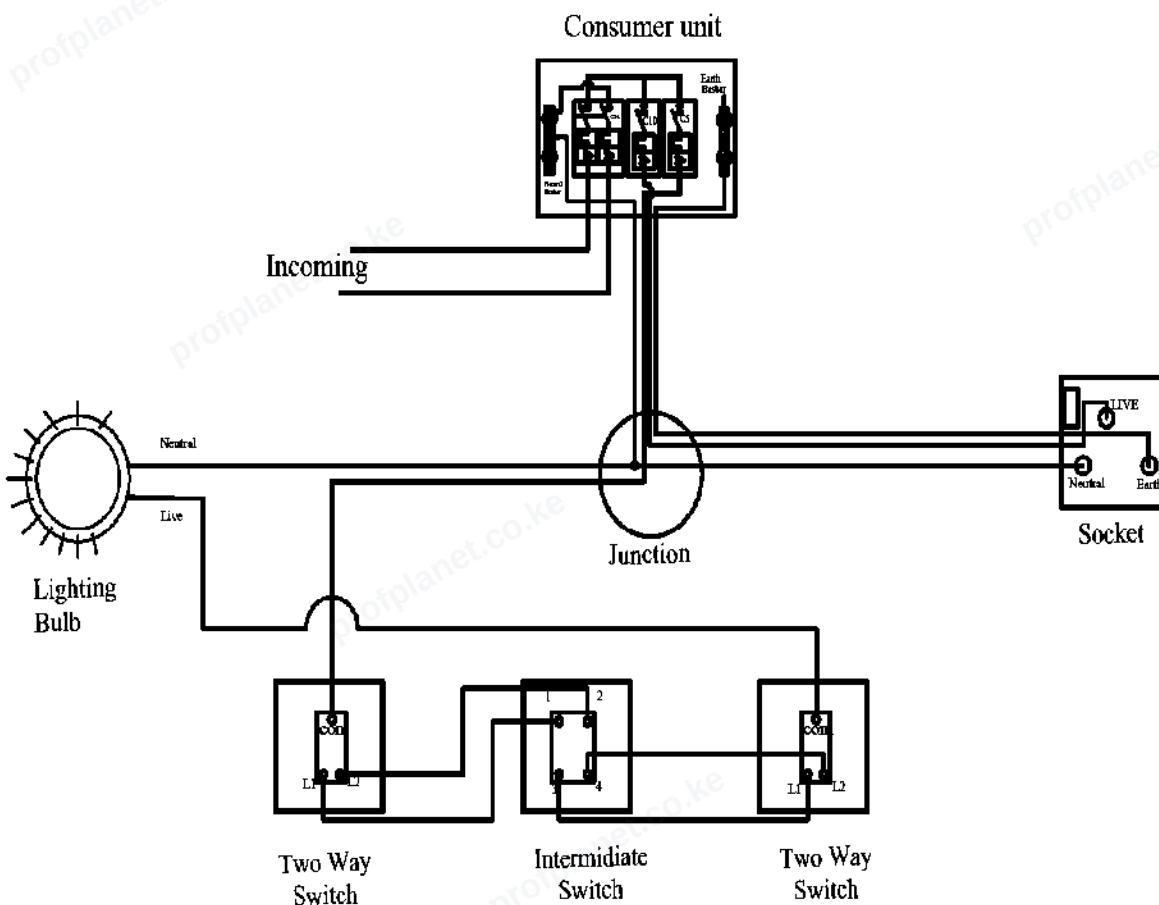


Figure 1

2. You have been provided with the following resources for the practical tasks:

- i. 6 A Single pole MCB
- ii. 10 A Single pole MCB
- iii. 63 A Double pole MCB
- iv. 4-way Consumer unit
- v. Black 1.5 mm² single core cable
- vi. Red 1.5 mm² single core cable
- vii. Yellow 1.5 mm² single core cable
- viii. Black 2.5 mm² single core cable
- ix. Red 2.5 mm² single core cable
- x. Yellow 2.5 mm² single core cable

- xi. Two-way switches
- xii. Intermediate switch
- xiii. Single socket
- xiv. 3-way Junction boxes PVC conduits
- xv. 1-way Junction box PVC conduit
- xvi. Singles square boxes PVC conduits
- xvii. Conduits
- xviii. Insulation tape
- xix. Screws
- xx. Saddles
- xxi. Bulb holder
- xxii. Bulb
- xxiii. Pair of pliers
- xxiv. Phase tester
- xxv. Wire stripper
- xxvi. Electric power drill
- xxvii. Flat screw drivers
- xxviii. Star screw drivers
- xxix. Spirit level
- xxx. Multimeter
- xxxi. Bending spring