

061906T4TEL

TELECOMMUNICATION ENGINEERING LEVEL 6

ENG/OS/TLE/CR/01/6/A

Perform Electrical Installation

Nov/Dec 2024



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

PRACTICE

4 HOURS

INSTRUCTIONS TO CANDIDATE:

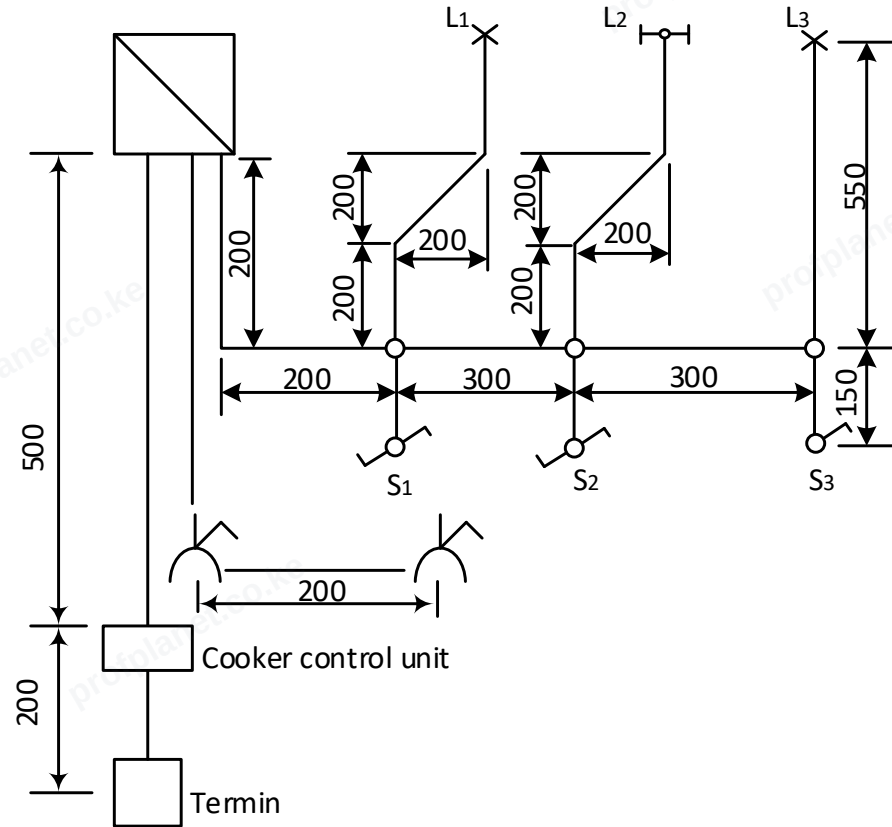
1. Figure 1 shows a layout of final lighting and power circuits to be wired using P.V.C mini trunking wiring system. You are required to perform the following tasks;

TASK 1: Draw wiring diagram for the installation.

TASK 2: Estimate materials required for the installation.

TASK 3: Install the circuits such that, lamps **L₁** and **L₂** are controlled by switches **S₁** and **S₂** while **L₃** is controlled by **S₃**, the socket outlets are connected in ring.

TASK 4: Test the circuit for correct operation.



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

S/ NO	DESCRIPTION	PROVIDED BY
1.	4 WAY CCU (Metallic)	
2.	Straight Lamp holders	
3.	Incandescent lamps	
4.	Fluorescent lamp (2ft)	
5.	13A switched Socket outlet	
6.	Cooker Control Unit	
7.	Cooker terminal box	
8.	Two-way switch 1 Gang	
9.	1-way switch 1 Gang	
10.	Twin with Earth 1.5 mm PVC singles (R/B/Y)	
11.	Twin with Earth 2.5 mm PVC singles (R/B/Y)	

12.	Twin with Earth 6.0 mm PVC sheathed cable singles (R/B/Y)	INSTITUTION
13.	Deep pattress box	
14.	Joint Box	
15.	Wood screws	
16.	Switch boxes (single)	
17.	PVC Mini trunking	
18.	Shallow pattress box	
19.	Tack nails	
20.	Self-tapping wood screw (1 inch)	
21.	Single Circuit breaker(32A)	
22.	Single circuit breaker(6A)	
23.	Twin pattress box	
24.	Hacksaw blade	
25.	Tape measure	CANDIDATE
26.	Spirit level	
27.	Ball pein hamm	
28.	Tester	
29.	Screw driver	
30.	Pliers	
31.	Safety boots	
32.	Dust coat/overall	

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