

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/08/6

Maintain Electrical Equipment and Systems

July/August 2025



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

PRACTICAL ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

- 1. Figure 1** shows a layout diagram of the pre-installed electrical installation project such that:
 - i. Fluorescent Lamp L1 and L2 are controlled from two different positions, Switch S1 and S2.
 - ii. Sockets S/O1 and S/O2 are connected in radial.

You are required to perform the following tasks:

TASK 1: Draw the wiring diagram

TASK 2: Identify the faults in the installation and record the cause of failure.

TASK 3: Prepare a list of tools, equipment and materials required for installation maintenance.

TASK 4: Repair the installation system as per SOPs

TASK 5: Carry out the following tests:

- i. Continuity test
- ii. Polarity test

TASK 6: Write a maintenance report

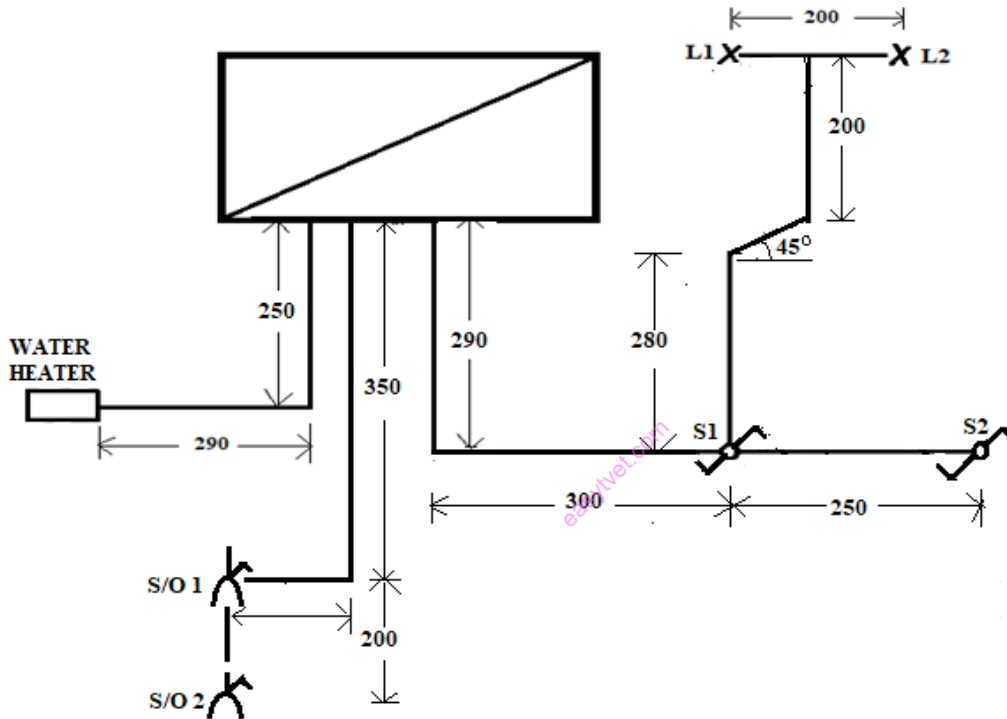


Figure 1

2. You are provided with the following materials to perform the tasks.

- i. Preinstalled electrical project as shown in Figure 1
- ii. Electrician's toolbox