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071305T4ELC

ELECTRONICS ENGINEERING LEVEL 5

ENG/OS/ET/CR/01/5

Perform Electrical Installation

July/August 2025

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

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PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:

   TASK 1; Draw the wiring diagram for the circuit in Figure 1 such that:

   i) Socket outlets are wired in ring.

   ii) Lamps are controlled from one point.

   TASK 2; Install the circuit using PVC mini-trunking

   TASK 3; In the presence of the assessor, carry out the following tests:

   i) Continuity test

   ii) Polarity test

   iii) Insulation resistance test

   TASK 4; In the presence of the assessor, power the installation and test its functionality.

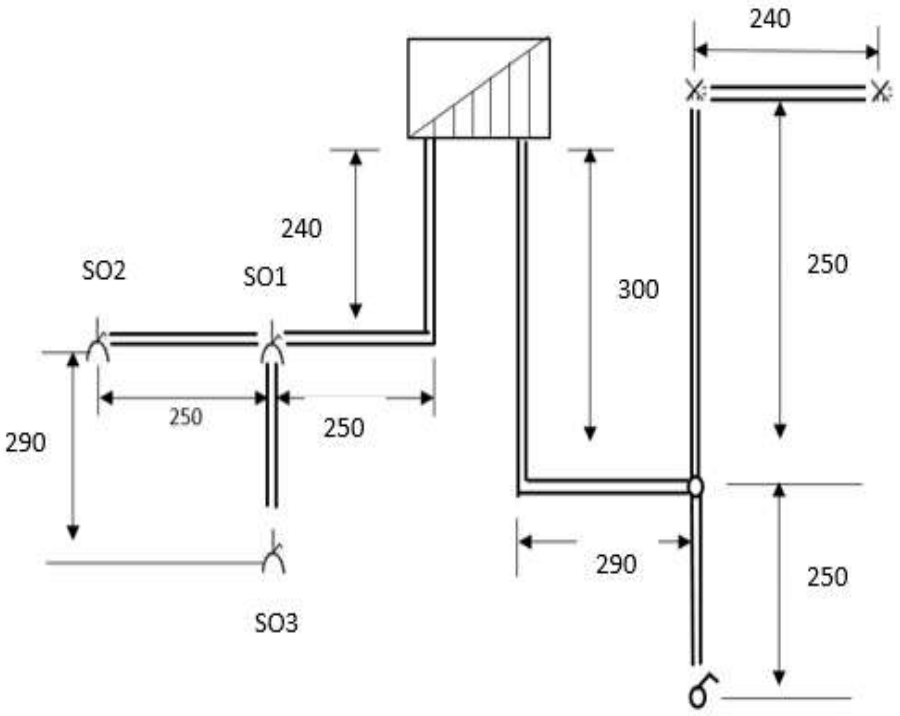


Figure 1

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2. You have been provided with the following resources for the practical tasks:
   i. 2.5 mm^2 PVC single core cables R/B/G
   ii. 1.5 mm^2 PVC single core cables R/B/G
   iii. Consumer Control Unit (4 way)
   iv. 63A Double pole circuit breaker
   v. 32A Single pole circuit breaker
   vi. 6/10A Single pole Circuit breaker
   vii. Single pole one-way switch
   viii. Straight Lamp holders
   ix. 9W Bulbs
   x. PVC mini trunks
   xi. Switched socket outlets
   xii. Wooden screws (assorted)
   xiii. Junction box
   xiv. Shallow pattress
   xv. 240V AC power supply

xvi. Multimeter

xvii. Insulation tester

xviii. Insulation Tape

xix. Installation board 1.2m x 1.2m

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