

071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/CU/PO/CR/04/5/A

Demonstrate Understanding of Electronics

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. Do not write on the question paper
2. **NO** circuits should be connected to **POWER** without the assessor permission
3. A separate plain paper will be provided

This paper consists of THREE (3) printed pages.

Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

The following resources will be provided:

- (a) Electronic tool kit
- (b) One Resistor $100\text{k}\Omega$
- (c) One Resistor 2200Ω
- (d) Zener diode
- (e) One $1000\mu\text{F}$ Capacitor
- (f) Transistor BD131
- (g) Digital voltmeter (Auto range)
- (h) Jumper wires
- (i) Soldering gun
- (j) Circuit board

PROJECT

Figure 1 shows a D.C power supply

You are required to perform the following tasks:

TASK 1: Using the components and tools provided, mount and solder the circuit on a circuit board.

TASK 2: Power the circuit and measure the voltages at test points

- i. TP1
- ii. TP2
- iii. TP3
- iv. Measure the current flowing through R1

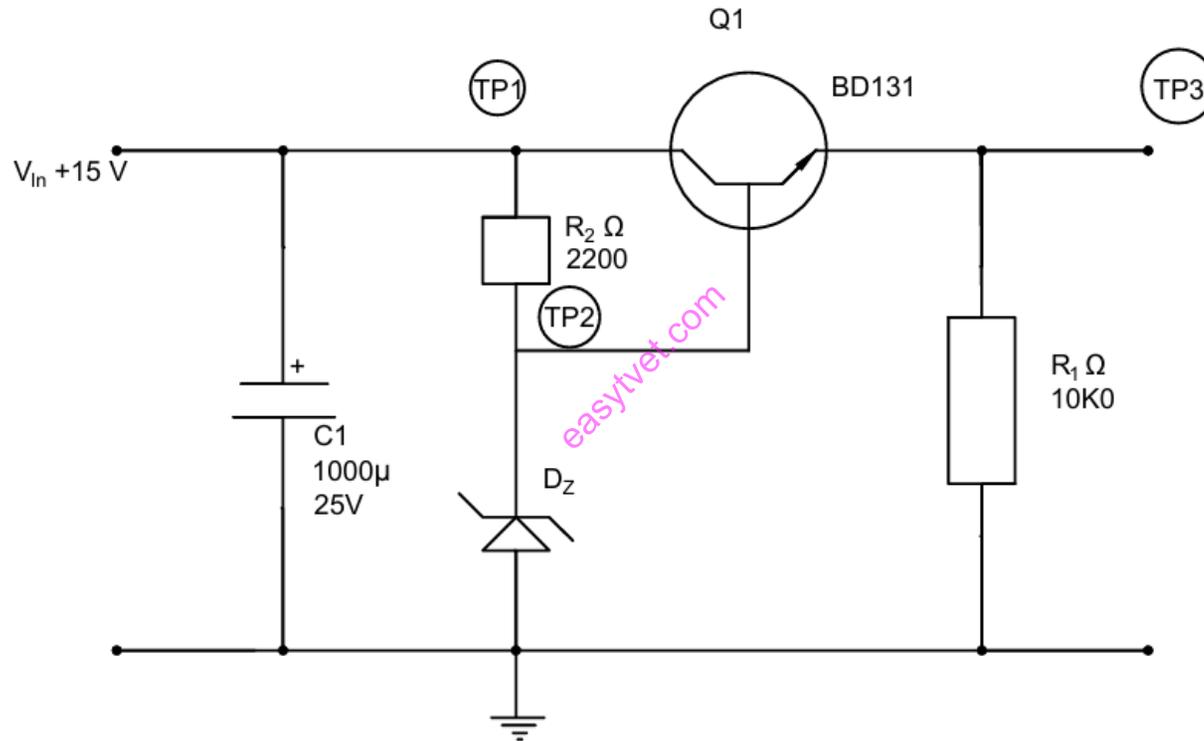


Figure 1

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