

071306T4ELC

ELECTRONICS TECHNICIAN LEVEL 6

ENG/OS/ET/CR/02/6/A

Install Power Supply Systems

Nov/Dec 2024



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

PRAC

SSMENT

URS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:
 - i. **TASK 1:** Using the materials, tools and equipment provided Mount and solder the components on the strip board
 - ii. **TASK 2:** Power the circuit and measure the voltage at the test points
2. You have been provided with the following resources for the practical tasks:

• 220V 50Hz supply	• Electrolytic Capacitor 2200μF 25v, 100μF 25v, Electrolytic Capacitor 100μF 25v
• 220V 50Hz power source/supply	• Diodes IN4007
• Fuse 0.5A and holder	• Stripboard 14.5cm x 6.5cm
• ON-OFF switch Pushbutton	• Resistor 680Ω 1/4 watt
• Step-down transformer 220V/24V	• Transistor 2N3055

- Electrolytic Capacitor 5000μF 25v, 0.01μF 25v,	Solder sucker
Zener diode 12v	Soldering gun and stand
Multimeter	Side cutters
Connecting wires	Wire Stripper

Figure 1 shows a 12 V power supply circuit. Referring to the figure carry out the following tasks:

TASK 1: Using the materials, tools and equipment provided mount and solder the components on the strip board

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

- i. TP₁=_____
- ii. TP₂=_____
- iii. TP₃=_____
- iv. TP₄=_____

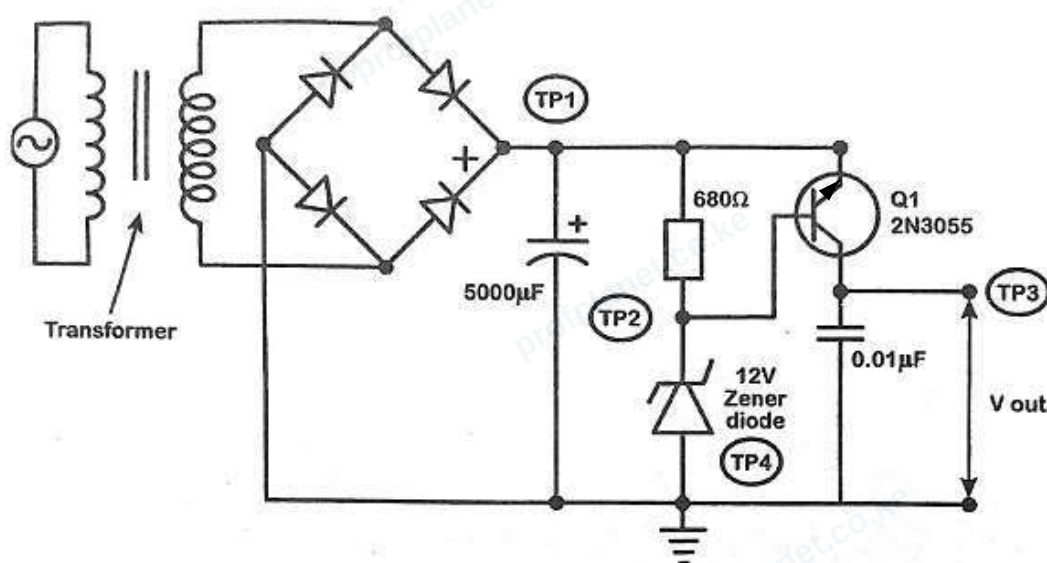


Figure 1

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