

071305T4ELC

ELECTRONICS ENGINEERING LEVEL 5

ENG/OS/ET/CR/02/5

Install Power Supply Systems

JulyAugust 2025



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

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. Figure 1 is a power supply circuit. You are required to perform the following tasks:

TASK 1: Mount and solder on a strip board.

TASK 2: Power the circuit, measure the voltages at the following test points and record your results:

- i) TP 1
- ii) TP 2

TASK 3: Using an oscilloscope observe and draw the waveforms at the following test points:

- i) TP1;
- ii) TP2.

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

- i. 240V AC Power Source
- ii. Step-down Transformer 9V or 9V AC power supply
- iii. 4 diodes (1N4001)
- iv. Capacitor (470 μ F)
- v. 2 Capacitors each (0.1 μ F)
- vi. Voltage regulator 7805
- vii. Jumper wires
- viii. Long Nose Pliers
- ix. Copper Strip board 60mmX50mm
- x. Side cutter
- xi. Tweezer
- xii. Digital multimeter
- xiii. Oscilloscope
- xiv. Soldering iron
- xv. Soldering wire

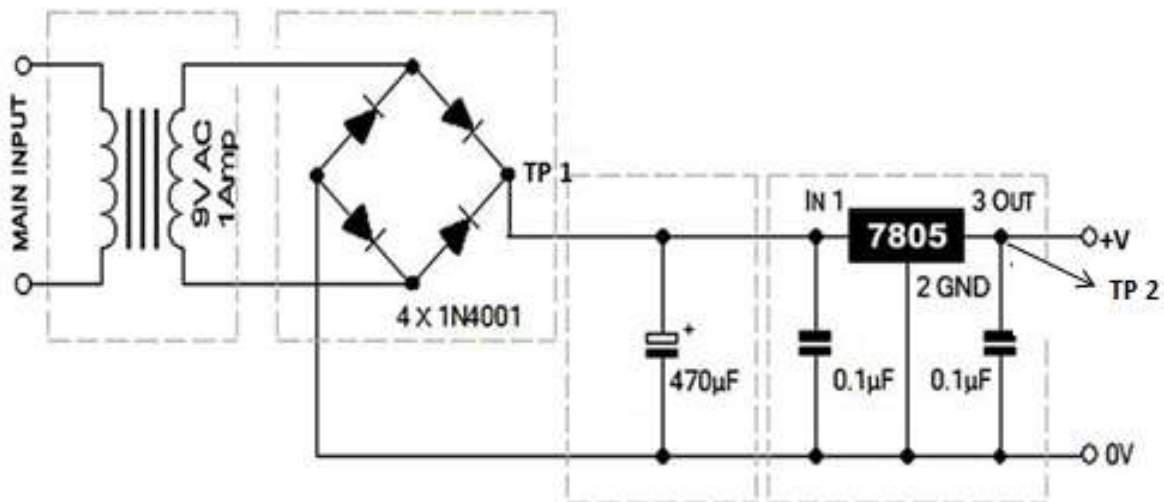


Figure 1