

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/04/6

Demonstrate Understanding of Electronics

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 direct coupled two stage amplifier circuit. You are required to perform the following tasks

TASK 1: Identify the components provided

TASK 2: Mount and solder the circuit on a Printed circuit board

TASK 3: Power the circuit with 10V and provide an input voltage of 3V. Measure the voltages at the following test points:

- i. TP1
- ii. TP2
- iii. TP3
- iv. TP4
- v. TP5

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

- i. 3Vdc Power supply
- ii. 10Vdc power supply
- iii. Digital Multimeter
- iv. Printed circuit boards
- v. Solder iron
- vi. Solder wire
- vii. 1 k Ω resistor
- viii. 2 k Ω resistor
- ix. 3 k Ω resistor
- x. 4 k Ω resistor
- xi. BC 109
- xii. Jumper wires
- xiii. Wire cutter
- xiv. Electronics tool kit (wire cutter and stripping knife)

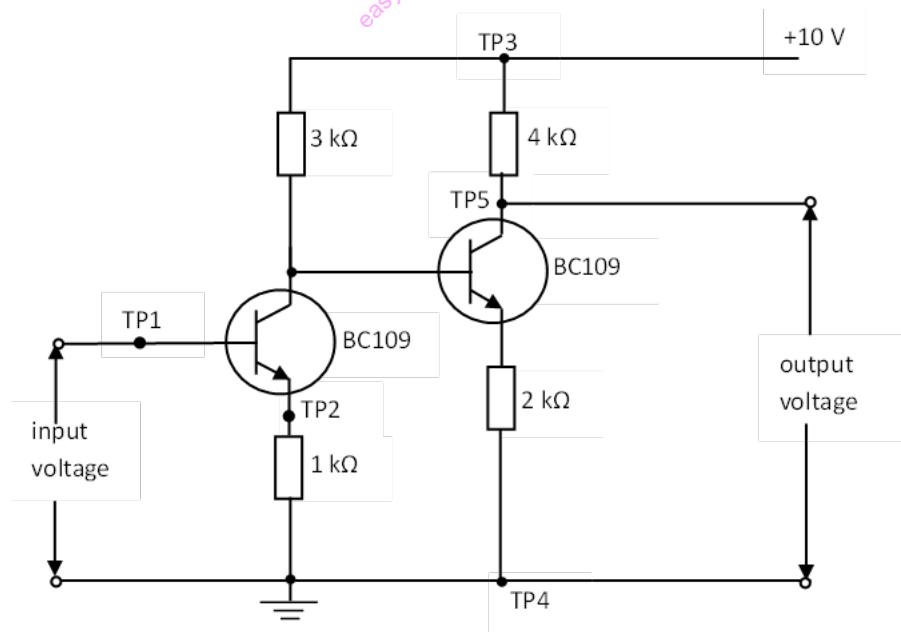


Figure. 1