

071606T4MCT

MECHATRONIC TECHNICIAN LEVEL 6

ENG/OS/MC/CR/03/6/

Maintain Electro-Mechanical Systems

July/August 2025



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

PRACTICE ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks on a pre-installed electromechanical system:
 - i. **Task 1:** Study the power circuit diagram shown in *figure 1* and draw its control circuit.
 - ii. **Task 2:** Troubleshoot the pre-installed electromechanical system provided.
 - iii. **Task 3:** Service and repair the system.
 - iv. **Task 4:** Carry out the following tests on the system.
 - a. Continuity test
 - b. Polarity test
 - c. Visual Inspection
 - d. Motor phase voltages
 - v. **Task 5:** Operate the electro-mechanical system.
 - vi. **Task 6:** Briefly write a breakdown maintenance report on the systems

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

- Pre-installed electro-mechanical system.
- Measuring tape
- Digital Multimeter
- Phase Tester
- Set of screw drivers
- Cables
- Cable Stripper

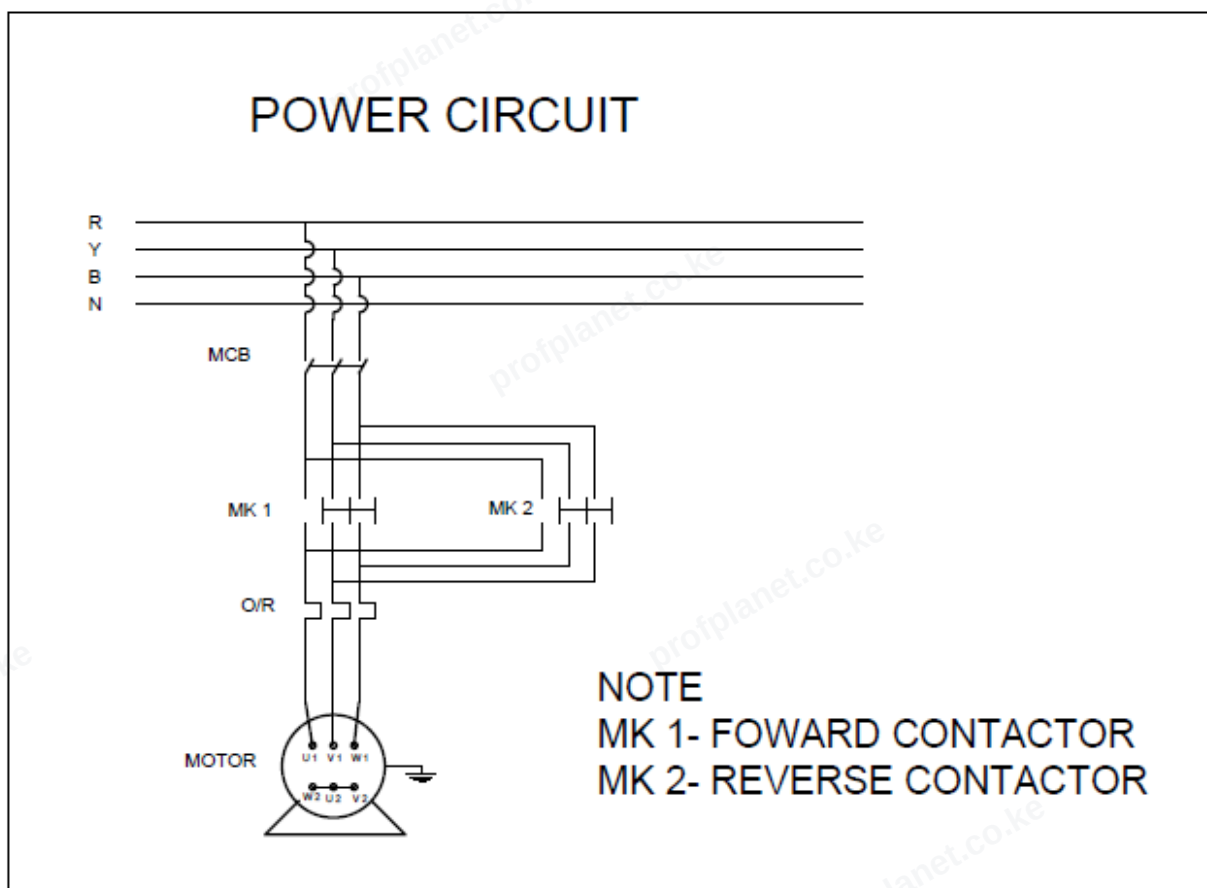


Figure1