

071605T4MCT

MECHATRONIC TECHNOLOGY LEVEL 5

ENG/OS/MC/CR/02/5

Maintain Electro-Mechanical Systems

July/August 2025



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

PRACTICE ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

- i. DO NOT write on the question paper.
- ii. DO NOT switch ON power without assessor's permission.
- iii. The assessor will assess your performance at critical points and may record your performance using audio-visual means.
- iv. You are required to have a name tag.

You are required to perform the following tasks:

Task A: Interpret the provided wiring diagram (Figure 1) of a DOL starter for three phase motor

- i. Identify and label the components of DOL starter
- ii. Draw its control circuit diagram.

Task B: Complete the installation of the electrical system by installing the control circuit as per your drawn diagram.

Task C: Install the mechanical system

- i. Mount driving sprocket on the motor
- ii. Mount driven sprocket
- iii. Mount the chain.

Task D: Test the system.

TASK E: Maintain the electromechanical system.

You have been provided with the following

es for the practical tasks:

1. 1 pre-installed three phase motor starter without the control circuit.
2. 1 pre-mounted bracket bearing.
3. 2 Push button (NC and NO).
4. 2 Keys.
5. 1 Shaft with key way.
6. A set of chain and sprocket.
7. Set of Allen Keys.
8. Set of Screw Drivers.
9. 1 grease gun.
10. Grease.
11. 1 Mallet.
12. 1 Multimeter.
13. 1 Cable stripper.
14. Labelling stickers
15. 1 side cutter
16. Enough Cables 4mm (Red, Black).

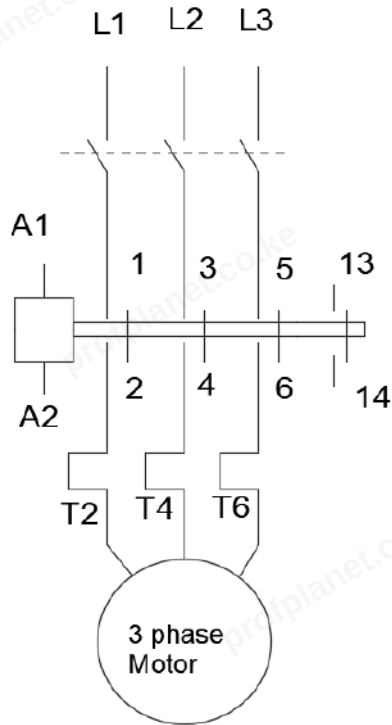


Figure 1: DOL Starter Wiring Diagram