

071605T4MCT

MECHATRONICS TECHNOLOGY LEVEL 5

ENG/OS/MC/CR/05/6/A

Operate Programmable Logic Control (PLC) Systems

March/April 2025



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

PRACTICAL ASSESSMENT

RS

INSTRUCTIONS TO CANDIDATE: _

1. You are required to perform the following tasks to control the lights automatically.

TASK 1: Wire PLC light control circuit as shown in *Figure 1*.

TASK 2: Program the PLC

- i. Copy the PLC program shown in *Figure 2* on the provided PLC programming software.
- ii. Download the PLC program into the PLC.
- iii. Operate/Run the PLC system.
- iv. Record your observations.

TASK 3: Perform housekeeping.

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

- i. Start button
- ii. Stop button

- iii. Green indicator lamp
- iv. Orange indicator lamp
- v. Red indicator lamp
- vi. PLC module
- vii. Computer with PLC software installed
- viii. Communication cable
- ix. Connecting wires
- x. Set of screwdrivers
- xi. Side cutter
- xii. Tool kit

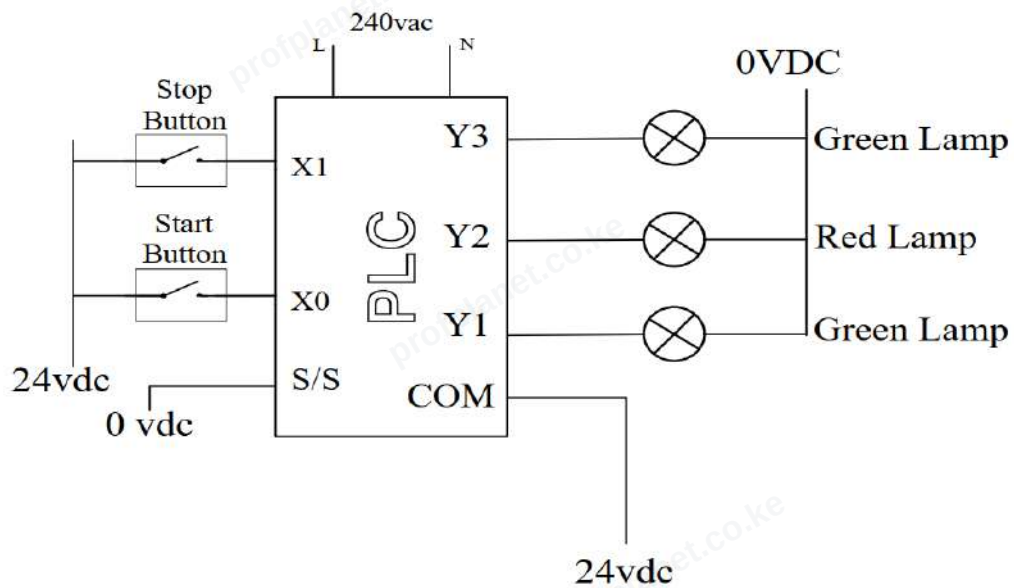


Figure 1

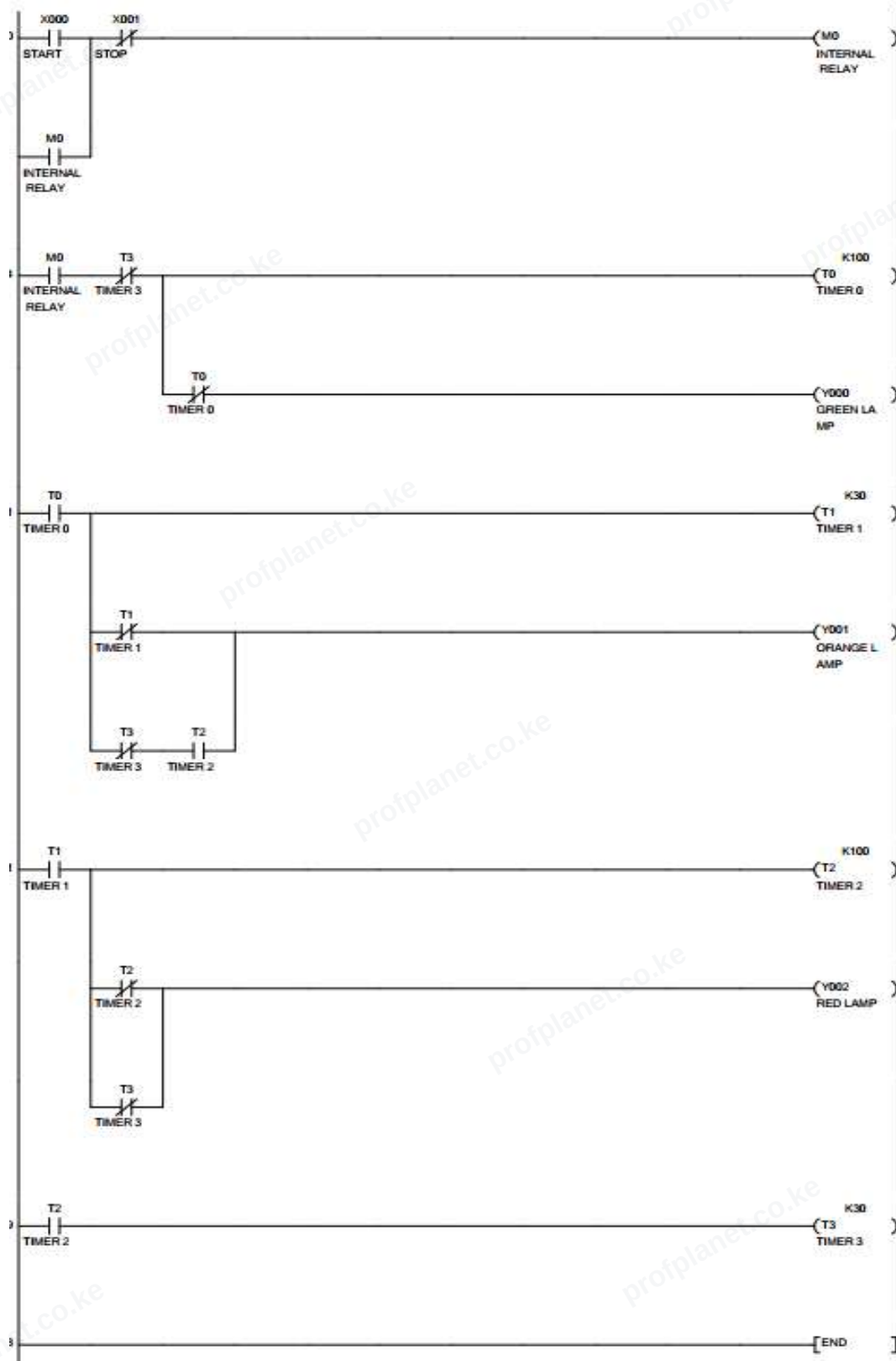


Figure 2