

071605T4MCT

MECHATRONIC TECHNOLOGY LEVEL 5

ENG/OS/MC/CR/03/5

Maintain Mechatronic Systems Instrumentation and Control

July/August 2025



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

CU IST

No	Item	Specificat	Quantity per Student	Provided By
1.	Computer station	Installed with appropriate PLC programming software	1 set	Institution
2.	PLC	24 vdc inputs Contact type outputs	1pc	
3.	Variable frequency drive	Single phase to 3 -phase	1 pc	
4.	VFD Operating manual	Relevant to VFD provided	1 pc	
5.	Tachometer	Digital	1 pc	
6.	Double pole MCB		1 pc	
7.	Capacitive sensor	24vdc	1 pc	
8.	Screw drivers	Assorted	1 set	
9.	Motor	3 phase motor.	1pc	
10.	Connecting wires	Single core flex 1.0 mm control cables.	5 m	

11.	Power supply	Input power: AC 240 V Output power: DC24V	1pc	Institution
12.	AC Power source	240 V	1	
13.	Multimeter	Digital with standard probes.	1pc	
14.	Holding switches (Pushbutton)	Momentary type with NO & NC terminals.	3 pcs	
15.	Communication cable	Appropriate for the PLC	1 pc	