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021306T4IOR

INDUSTRIAL AUTOMATION AND ROBOTICS LEVEL 6

ENG/OS/IA/CR/02/6

Install and Maintain Automation System Components

July/August 2025

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

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CUTTING LIST

S/NO	ITEM	QUANTITY	PROVIDED BY
1.	Start/Stop push buttons N.O green/ N.C red	2	Institution
2.	Cables (Red, Black, Blue) 1.5 mm^2 Single core	5 meters each	
3.	Float sensor (Single sensor with dual switch or 2 float switches for high/low level)	2	
4.	Solenoid Valve 24V DC valve with compatible relay or contactor for switching	2	
5.	Controller (PLC)		

	Minimum 4 digital inputs, 2 relay outputs, 24V DC logic, ladder logic capable	1	
6.	PLC programming cable	1	
7.	DIN Rail (MCB type)	30cm	
8.	Terminal blocks	10	
9.	Relay/Contactor Rated for solenoid valve load, coil voltage to match PLC output	3 meters	
10.	Rectangular water tank/Bucket 20 Liter capacity	Enough	
11.	Equipment Labeler	Enough	
12.	Multimeter	1	
13.	24 volts d.c industrial Power Supply	1	
14.	240 volts a.c Power Supply	1	
15.	Installation Board	1	
16.	Water source	Enough	
17.	PC installed with relevant software	1	
18.	Electronics toolkit	1	
19.	MCB	1	
20.	Binding wire	Enough	
21.	Overall	1	Candidate
22.	Safety boots	1	
23.	Hand gloves	1	
24.	Helmet	1	

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