021306T4IOR

INDUSTRIAL AUTOMATION AND ROBOTICS LEVEL 6

ENG/OS/IA/CR/10/6

Install and Maintain Distributed Control Systems (DCSs)

July/August 2025

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

CUTTING LIST

S/NO	ITEMS	QUANTITY (per candidate)	PROVIDED BY
1.	A computer installed with relevant software(s)	1pc	Institution
2.	P.L.C	2pcs	
3.	Programming cable	1pc	
4.	Ethernet cable	3pcs	
5.	M.C.B	1pc	
6.	24 volts d.c industrial power supply	1pc	
7.	3 phase induction motor	1pc	
8.	Variable Frequency Drive (V.F.D with 24 volts digital inputs, analogue inputs and ethernet communication capabilities)	1pc	
9.	Start Pushbutton (motor control)	1pc	

10.	Stop Pushbutton (motor control)	1pc	
11.	Managed ethernet Switch	1pc	
12.	1.0mm^2 automotive type connecting wires (red, black, blue)	1m each	
13.	2.5mm^2 twin with earth sheathed cable	1.5m each	
14.	Electronics toolkit	1set	
15.	Multimeter	1pc	
16.	Wire Stripper	1pc	
17.	Side Cutter	1pc	
18.	Zip Ties (8 inches)	enough	
19.	Safety Boots	1pair	Candidate
20.	Overall/Dust coat	1pair	