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INDUSTRIAL AUTOMATION AND ROBOTICS LEVEL 6

ENG/OS/IA/CR/05/6

Install and Maintain Stand-Alone Controllers

July/August 2025

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

CUTTING LIST

S/NO	ITEMS	QUANTITY (per candidate)	PROVIDED BY
1.	Three-phase asynchronous motor	1pc	
2.	PLC module	1pc	Institution
3.	PLC programming cable	1pc	
4.	Computer station installed with PLC programming software	1pc	
5.	Electronics toolkit	1pc	
6.	Normally Closed pushbutton	1pc	
7.	24VDC Industrial power supply	1pc	
8.	3 phase power supply	1pc	
9.	Normally Open pushbutton	2pc	
10.	24V indicator lamps	3pc	
11.	Digital Multimeter	1pc	
12.	Clamp meter	1pc	

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13.	24 volts Contactors A09 (15A - 25 A)	2pc	
14.	Thermal overload (10 A)	1pc	
15.	Single pole MCBs (5-6 A)	1pc	
16.	Triple pole MCBs (10 A)	1pc	
17.	4.0 mm^2 cables	Yellow- 1metre Blue- 1metre Red- 1metre	
18.	1.0 mm^2 flexible cables	Black- 0.5 metres Red- 0.5 metres Blue- 2 metres	
19.	1.0 mm Ferrule connectors	20 pc	
20.	Ferrule connector crimping tool	1pc	
21.	Terminal blocks	6pc	
22.	Helmet	1 pc	Candidate
23.	Safety boots	1 pair	
24.	Overall	1 pair	

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