



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

Qualification Code : 071606T4MCT
Qualification : Mechatronic Technician Level 6
Unit Code : ENG/OS/MC/CR/05/6/A
Unit of Competency : Carry out mechatronic programming

PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate perform the tasks.
2. You are required to take photos and/or video clips at critical points.
3. Ensure the candidate has a name tag and registration code at the back and front.

OBSERVATION CHECKLIST

Candidate's name & Registration No.	
Assessor's name & Reg. Code	
Unit(s) of Competency	Carry out mechatronic programming
Venue of Assessment	
Date of assessment	

(Indicate the marks available and marks obtained respectively. Award marks appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)

Items to be evaluated:	Marks Allocated	Marks Obtained	Comments
1. Established system software and hardware interface according to system specifications	1		
2. Identified system programmable hardware in use according to system specifications (Must be FXCPU)	1		
3. Identified system software requirements according to programmable hardware in use (Configured to FX3u)	1		
4. Obtained correct software according to the system requirements (GX Works2 used)	1		
5. Identified peripheral devices to be used according to software operational requirements	2		
6. Verified inputs and outputs of peripheral devices according system manual and program flow charts	1		
7. Generated and customized mechatronic program according to system requirements	3		
8. Run mechatronic program offline according to system specifications	2		

9. Verified correct wiring of peripheral devices according to system manual	3		
10. Installed peripheral devices according system specifications	1		
11. Networked mechatronic program with the system according to system requirements (Must be able to transfer program)	3		
12. Documented mechatronic program and interface according to SOPs (Cover page and ladder)	2		
13. Configured mechatronic program according to peripheral device inputs and outputs requirements	1		
14. Run mechatronic program online and tested for errors according to system requirements	1		
15. Debugged Mechatronic program in the event of errors according system output	2		
16. Diagnosed faults in the mechatronic program according to system manual	3		
17. Diagnosed faults in peripheral devices according to system manual	2		

PRODUCT CHECKLIST

Items to be evaluated:	Marks	Marks	Comments
	Allocated	Obtained	
18. Correct connection of communication cable	1		
19. Neat cable termination	3		

20. Developed a program	2		
21. Program working	3		
22. Housekeeping	1		
TOTAL	40		

The candidate was found to be: Competent Not yet competent

(Please tick as appropriate)

(The candidate is competent if s/he gets 20 marks (50%) of the 40 marks on the observation and product checklist)

Feedback from candidate:

Feedback to candidate:

Candidate's signature:	Date:	
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Assessor's signature:	Date:	
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Suggested PLC program:

