

071605T4MCT

MECHATRONIC TECHNOLOGY LEVEL 5

ENG/OS/MC/CR/01/5/A

Install Mechatronic Systems

March/April 2025



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

PRACTICE

MENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
1. Observed occupational health and safety by wearing: i. Overall ii. Safety boots <i>(Award 1 mark for each)</i>	2		
Sub-Total 1	2		
TASK 1: IDENTIFY THE COMPON			
2. Identified the following compon i. 63A MCB ii. Lighting circuit MCB iii. Socket circuit MCB iv. Consumer unit v. Intermediate switch vi. Two-way switch <i>(award 1 mark for each correct identification)</i>	6		
3. Used the following tools and materials: i. Wire stripper ii. Pliers iii. Cables iv. Screw drivers v. Multimeter	6		

vi. Saddles (Award 1 mark for each correct use of tool/material)			
Sub-Total 2	12		
TASK 2: WIRED THE CIRCUITS			
4. Mounted piping. (Award 1 mark for any 3 mounted conduits)	3		
5. Mounted the following: i. MCBs ii. Socket iii. Switches iv. Bulb holder v. Consumer unit (Award 2 marks for each correct mounti	10		
6. Wired the following: i. MCBs ii. Socket iii. Switches iv. Bulb holder v. Consumer unit (Award 3 marks for each correctly wired component)	15		
Sub-Total 3	28		
TASK 3: POWER THE SYSTEM			
7. Bulb turned ON and OFF when each of the 3 switches are turned ON and OFF. (Award 2 marks or 0 for each of the 3 switches tested)	6		

8. The socket has power when switched ON and has no power when switched OFF. <i>(Award 2 marks or 0)</i>	2		
Sub-Total 4	8		
TASK 4: PERFORM HOUSEKEEPING			
10. Maintained proper housekeeping: Kept the working space clean without scattering pieces of cables and tools. <i>(Award 2 marks for the above)</i>	2		
Sub-Total 5	2		
GRAND TOTAL	52		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	

Assessor's Signature _____	Date _____
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