

071306T4EEN

Electrical Engineering (Power Option) Level 6

ENG/OS/PO/CR/10/6

Demonstrate Understanding of Power Generation

July/August 2023



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

PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
2. You are required to take video clips at critical points.
3. Ensure the candidate has a name tag and registration code at the back and front.
4. Ensure at all times that the candidate is performing tasks in a safe environment.

Candidate's name & Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
Items to be evaluated:	Marks allocated	Marks obtained	Comments
OBSERVATION CHECKLIST			
1. Wore Personal Protective Equipment <ul style="list-style-type: none"> Dustcoat/Overall (<i>Award 1 or 0</i>) Safety boots (<i>Award 1 or 0</i>) 	1 1		
2. Applied good housekeeping practice <ul style="list-style-type: none"> Ensured clean working area before beginning working. (<i>Award 1 or 0</i>) Tidy working area arrangement (<i>Award 1 or 0</i>) Proper Waste disposal (<i>Award 1 or 0</i>) 	1 1 1		
3. Identified and correct use of tools and equipment <ul style="list-style-type: none"> Multi-meter (<i>Award 1 or 0</i>) Phase tester (<i>Award 1 or 0</i>) Pliers (<i>Award 1 or 0</i>) Screw drivers (<i>Award 1 or 0</i>) Tachometer (<i>Award 1 or 0</i>) Wire stripper (<i>Award 1 or 0</i>) 	1 1 1 1 1 1		
4. Observed colour code (<i>Award 1 or 0</i>)	1		
Sub total	12		

PRODUCT CHECKLIST			
5. Coupling of stepper motor and dynamo done correctly and firmly (<i>Award 5 or 0</i>)	5		
Sub-Total	5		
6. Connection of lamp holder to the dynamo			
• Correct termination at the lamp holder (<i>Award 2 or 0</i>)	2		
• Connection of stepper motor to the supply via 30A double pole circuit breaker (<i>Award 2 or 0</i>)	2		
Sub- total	4		
7. Recording of the information on the table			
• Correct use of tachometer (<i>Award 2 or 0</i>)	2		
• Recoding of speed, and corresponding voltage when bulb is ON (<i>Award 2 or 0 for each recording speed and voltage</i>)	12		
Sub- total	14		
8. Recording of observation			
• Voltage is directly proportional to speed (<i>Award 5 or 0</i>)	5		
Sub - Total	5		
GRAND TOTAL	40		
Percentage = $\frac{X}{40} \times 100$			

ASSESSMENT OUTCOMES		
The candidate was found to be: (Please tick (√) as appropriate)		
Competent <input type="checkbox"/>	Not yet competent <input type="checkbox"/>	
<i>(The candidate is competent if s/he gets 50% of the marks)</i>		
Feedback from candidate:		
Feedback to candidate:		
Candidate's signature:	Date:	
Assessor's signature:	Date:	

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