

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

Qualification Code : 071606T4MCT

Qualification : Mechatronics Technician Level 6

Unit Code : ENG/OS/MC/CC/04/6

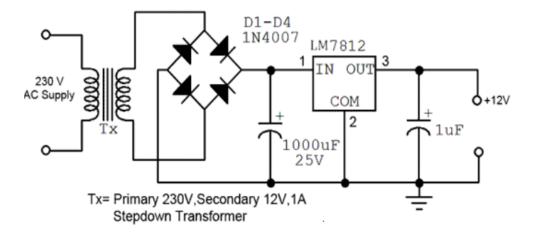
Unit of Competency: Apply Electrical and Electronics Principles

PRACTICAL ASSESMENT GUIDE

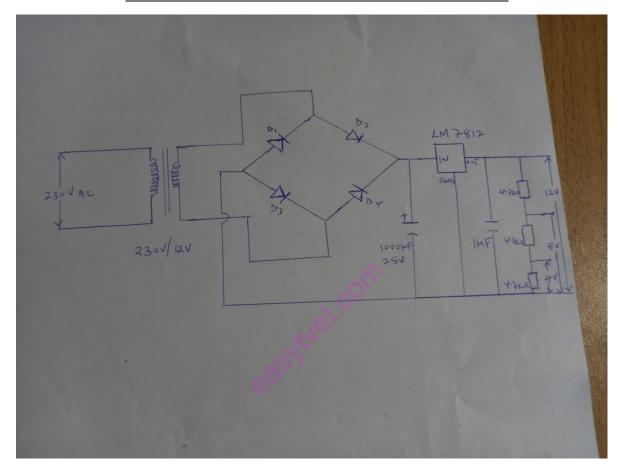
INSTRUCTIONS TO ASSESSOR:

- 1. Allocate **4 hours** to the candidate to perform the tasks.
- 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.

CIRCUIT DIAGRAM



POWER SUPPLY CIRCUIT WITH VOLTAGE DIVIDER



OBSERVATION CHECKLIST

Candidate's Name &	
Registration Code	
Assessor's Name&	
Registration Code	
Venue of Assessment	
Date of assessment	

Item to be Evaluated	Marks	Marks	Comments	
	Allocated	Awarded		
Correct tool and material selection.				
i. Soldering gun, phase tester, assorted screw				
drivers, digital multimeter				
ii. Capacitor, power diodes, voltage regulator	2			
IC-7812,resistors,solder wire	2			
2. Estimated the materials to be used	2			
3. Observed safety precautions.				
i. Wore apron.	1			
ii. Safety boots.	1			
iii. Practiced proper handling of tools.	1			
4. Finished the tasks on time	1			
TOTAL	10			
PRODUCT CHECKLIST				
5. Neatness	1			
6. Quality shiny joints				
	3			
7. Firm and sound connections				
	4			
8. General neatness	3			
9. General testing before powering	4			
10. Correct circuit operation (functionality)	10			

11. Correct test results for;					
(i) 4V	5				
(ii) 8V	5				
(iii) 12V	5				
TOTAL	50				
GRAND TOTAL	50				
The candidate was found to be: (Please tick ($$) as approximately	propriate)	1			
Competent/Not yet compete					
(The candidate is competent if s/he gets at least 40%.)					
Feedback from candidate:					
Feedback to candidate:					
Candidate's signature: Date:					
Assessor's signature: Date:					