

071604T4AME

AGRICULTURAL MACHINERY AND EQUIPMENT LEVEL 4

ENG/OS/AME/CR/03/4/A

Apply Digital Skills in Agricultural Systems

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

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
SERVICE A LEAD - ACID BATTERY			
1. Wore PPEs: • Overall/ dustcoat • Safety boots • Goggles (Award 1 mark each)	3		
2. Assembled tools and materials (Award 2 marks)	1		
3. Carried out visual inspection of the battery • Checked for cracks on the casing • Checked for corrosion of the terminals • Checked for blocked vents (Award 1 mark each)	3		
4. Cleaned the battery • Cleaned the casing • Cleaned the battery posts for corrosion • unblocked the vents • Used tools appropriately (Award 2 marks each)	8		

5. Unscrewed the vent caps (Award 2 marks)	2		
6. Determined the relative density of the electrolyte - Measured the relative density of each cell and recorded - Calculated the average relative density of the electrolyte. $\text{Average} = \frac{\sum \text{each cell reading}}{\text{number of cells}}$ (Award 2 marks each) <u>NOTE</u> Candidate to do the working on a piece of paper and submit to the assessor	4		
7. Determined the level of the electrolyte and topped up the electrolyte if not covering the leads (Award 2 marks)	2		
8. Closed the vent caps (Award 1 mark)	1		
9. Determined the voltage - Identified the polarity - Took the reading as per the multimeter (Award 2 marks each)	4		
10. Charged the battery - Plugged the battery charger to the source of electricity - Correctly connected the battery charger to the battery (Award 2 marks each)	4		

11. Disconnected the battery of the charger <i>(Award 1 mark)</i>	1		
12. Determined the capacity of the battery - Used the high capacity discharge tester - Adhered to the 10 seconds rule - Reported the feedback to the assessor <i>(Award 2 marks each)</i>	6		
13. Cleaned self <i>(Award 1 mark)</i>	1		
GRAND TOTAL	40		
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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