

083105T4AQC

AQUACULTURE TECHNICIAN LEVEL 5

AQ/OS/AT/CR/02/5/B

Produce Fish Feeds

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
TASK 1: DETERMINE POND PRODUCTIVITY			
1. Wore PPEs: • Gumboots • Gloves • Mask • Apron <i>(Award 1 mark for each PPE worn)</i>	4		
2. Cleaned and organized the work area <i>(Award 2 marks for cleaning and organizing the work area by putting everything in place)</i>	2		
3. Assembled all materials and supplies in as per task requirement. <i>(Award 3 marks for assembling all materials before beginning the task)</i>	3		
4. Determined pond productivity using a secchi disk. • selected a suitable point for taking secchi disk reading - 2 marks	15		

- slowly released the secchi disk into the water and marked on the string the depth at which it disappears – 2 marks - using the tape measure, took the measurement and recorded – 2 marks - Pulled up the string and marked on the string the depth at which the Secchi disk reappears. – 2 marks - using the tape measure, took the measurement and recorded – 2 marks - Calculated the average of the two Secchi depths – 2 marks - Interpreted the meaning of the Secchi disk readings; 3 marks - Less than 25 cm – overly fertilized. Hence no need of fertilization 25cm to 40cm – fertility okay. Hence no need of fertilization - Over 40 cm – poor productivity – pond should be fertilized			
Sub-Total 1	24		
TASK 2: FERTILIZE POND			
5. Using a tape measure, accurately determined and recorded the dimensions of the pond. <i>(For accurate measurement of the pond dimensions award 3 marks)</i>	3		

6. Calculated the area or volume of the culture unit Square pond = $L \times L$ Rectangular pond = $L \times W$ Circular pond = $A = \pi r^2$ <i>Formular = 2marks</i> <i>Substitution = 2 marks</i> <i>Answer = 2 marks</i>	6		
7. Given the application rate of 2g per square meter, calculated, scooped and weighed the amount of DAP in a dish to use based on the surface area of the culture unit. <i>(Quantity of fertilizer = Area X rate (2g) (award 3 marks)</i> <i>For Accurate weighing award 2 marks)</i>	5		
8. Using the two liters of water, bucket and stirring rod, completely dissolved the DAP fertilizer. <i>(Award 3 marks for using the two-liter pod water to dissolve the fertilizer)</i>	3		
9. Sprinkled the fertilizer solution evenly over the culture unit. <i>(Award 5 Marks for evenly sprinkling the mixture)</i>	5		
10. Cleaned and stored all the tools, materials and equipment used.	2		

<i>(Award 2 marks for cleaning and properly storing tools, equipment and materials used)</i>			
11. Collected, sorted and disposed of waste <i>(Award 1 mark for collecting and sorting and 1 for proper disposal waste)</i>	2		
Sub-Total 2	26		
GRAND TOTAL	50		

ASSESSMENT OUTCOME

The candidate was found to be:

Competent ☐ Not yet Competent ☐

(Please tick as appropriate)

(The candidate is competent if the candidate obtains at least 50%)

Feedback from the Candidate:

Feedback to the Candidate:

Candidate Signature	Date:
_____	_____

Assessor's Signature	Date
_____	_____