

083104T4AQC

AQUACULTURE MANAGEMENT LEVEL 4

AQ/OS/AT/CR/03/4/A

Operate Fish Hatchery

March/April 2025



**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: STRIP THE FEMALE FISH TO RELEASE EGGS AND STIMULATING THE MALE TO RELEASE MILT			
1. Wore PPEs correctly <i>(Award 1 mark each for gumboots, apron and face mask/gloves worn)</i>	3		
2. Prepared containers and nets <i>(Award 1 mark each for preparing clean containers and selecting appropriate happa nets recommended)</i>	2		
3. Taken and regulated the room temperatures and recorded. <i>(Award 2 marks for reading the temperatures correctly to be in a range from 25-30 °C and 1 mark for adjusting any temperature changes using the thermostat and recording the readings)</i>	3		
4. Stripped the female to release <i>(Award 2 marks for selecting the right female for stripping along the vent area, 2 marks for manual stripping to release eggs, 2 marks for using the right bowl to</i>	6		

<i>receive the eggs)</i>			
5. Selected male fish <i>(Award 2 marks for properly selecting the right male free from disease)</i>	2		
6. Stimulated the release of semen <i>(Award 2 marks for properly handling the fish to avoid injury, 2 marks for gently applying pressure along the sides of the fish abdomen near the vent opening, 2 marks for collecting milt in a clean dry container to prevent dilution or contamination)</i>	6		
TASK 2: FERTILIZE THE FEMALE FISH EGGS			
7. Fertilized the eggs <i>(Award 4 marks for mixing the egg with milt in a sterilized clean container)</i>	4		
8. Incubated the eggs <i>(Award 2 marks for adding milt to the eggs and mixing gently using a clean feather or soft brush on a tray, 2 marks for adding small amount of clean water to activate the mixed eggs and milt and ensure proper mixing, 2 marks for allowing fertilization to occur for 30 minutes)</i>	6		
9. Monitored water quality <i>(Award 2 marks each for testing of pH using PH meter/PH test kit and temperatures using thermometers and 2 marks for record the readings)</i>	6		

Correct pH-6.5-7.5, temperatures 25-30			
10. Cleaned, Collected and stored tools <i>(Award 1 mark for each activity done i.e. collection, cleaning and proper storing of tools, materials and equipment)</i>	3		
GRAND TOTAL	39		
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	
_____		_____	