

PRODUCE TABLE SIZE FISH

ISCED UNIT CODE: 0831 251 02A

TVETCDACC UNIT CODE: AQ/OS/AM/CR/02/3/MA

Unit Description

This unit covers the competencies required to produce table-size fish. It entails preparing grow-out rearing units, stocking fingerlings and managing fish health.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the Range</i>
1. Prepare grow-out rearing units	<ul style="list-style-type: none">a. PPEs are identified and gathered as per task requirementb. Safety precautions are adhered toc. Tools, equipment and materials are assembled in line with task requirementd. Fish culture units are drained to drynesse. Fish culture tanks are cleaned and disinfected with food grade cleaning agents as per standard sanitary operating proceduresf. Excess pond bottom mud is removed till initial pond depth is attainedg. Fertilization and liming of culture units carried out based on recommended rates
2. Stock fingerlings	<ul style="list-style-type: none">a. Fry or fingerlings are acclimatized based on culture unit temperaturesb. Fry or fingerlings are gently released in to culture units with minimum stressc. Stocked ponds are monitored for fingerling stress and mortalities through direct observations
3. Feed grow out fish	<ul style="list-style-type: none">a. Fish feeds are safely handled to avoid cross-contamination and adulteration as per standard operating proceduresb. Feeds are weighed as per the feeding schedule for the specified fish species and size

	<ul style="list-style-type: none"> c. Weighed feed rations are divided by the frequency of feeding as specified in the feeding schedule d. Fish are fed using any of the appropriate methods based on labour available, weather conditions, size of the culture units e. Fish feeding behaviour is monitored during feeding based on normal behaviour and recorded
4. Manage fish health.	<ul style="list-style-type: none"> a. Fish are observed for changes in behaviour and physical appearance using a checklist provided by a fisheries technician b. Feeding response is monitored following standard farm procedures c. Management related remedial measures for stressed and diseased fish are undertaken as directed by a fisheries technician as per International Organization for Animal Health (OIE) guidelines d. Biosecurity measures are put in place to prevent disease outbreaks

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variables	Range Includes but not limited to:
1. Personal protective equipment	<ul style="list-style-type: none"> • Gloves • Arm/Hand guard, gloves • Hair Net/cap/bonnet • Face protection (mask, shield) • Apron/Gown/coverall/jump suit
2. Commonly farmed fish species	<ul style="list-style-type: none"> • Fresh water fish species e.g., Nile tilapia and African cat fish • Ornamental fish species e.g., American guppy and gold fish • Salty water fish species e.g., milkfish and prawns

3. Feeding behavior	<ul style="list-style-type: none"> • Carnivorous fish such as African catfish • Herbivorous fish such as tilapia • Omnivorous fish such as gold fish and guppies
4. Reproductive behavior	<ul style="list-style-type: none"> • Mouthbrooding in tilapia
5. Social behavior	<ul style="list-style-type: none"> • Shoaling and schooling
6. Defensive behavior	<ul style="list-style-type: none"> • Flight

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- Organizing skills
- Analytical skills
- Negotiation skills
- Interpersonal skills
- Communication skills
- Evaluation skills
- Problem solving
- Critical thinking
- Observation skills

Required Knowledge

The individual needs to demonstrate knowledge of:

- Fish biology for commonly farmed fish species
- Fish behavior

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <p>1.1. Identified relevant PPEs</p>
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	1.2. Identified aquaculture fish species 1.3. Identified fish parts/external morphology 1.4. Demonstrated the understanding of fish behavior
2. Resource implications	The following resources must be provided: 2.1 Laboratory 2.2 Library
3. Methods of Assessment	Competency may be assessed through: 3.1 Written tests 3.2 Third party reports 3.3 Oral questioning 3.4 Interview 3.5 Observation
4. Context of Assessment	Assessment could be conducted 4.1. On-the-job 4.2. Off-the-job 4.3. During industrial attachment
5. Guidance information for assessment	Holistic assessment with related units in the sector