

## PRODUCTION OF TABLE SIZE FISH

**UNIT CODE:** 0831 341 02A

**TVET CDACC UNIT CODE:** AQ/CU/AM/CR/02/3/MA

**UNIT DURATION:** 150 Hours

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: produce table size fish

### 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.

### Summary of learning outcomes

By the end of this unit of learning, the trainee should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Prepare grow-out rearing units	50
2.	Stock fingerlings	40
3.	Feed grow out fish	30
4.	Manage fish health.	30
<b>Total</b>		<b>150</b>

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Prepare grow-out rearing units	<b>Theory</b> 1.1 PPEs <ul style="list-style-type: none"> <li>1.1.1 Safety goggles</li> <li>1.1.2 Gumboots</li> <li>1.1.3 Gloves</li> <li>1.1.4 Dust coats</li> <li>1.1.5 First aid kits</li> <li>1.1.6 Gas mask</li> <li>1.1.7 Waders</li> </ul> 1.2 Selection of tools and equipment <ul style="list-style-type: none"> <li>1.2.1 Weighing scale</li> <li>1.2.2 Wheelbarrow</li> <li>1.2.3 Water quality test kit</li> <li>1.2.4 Spades</li> <li>1.2.5 Lime</li> <li>1.2.6 Fertilizer</li> <li>1.2.7 Secchi disks</li> <li>1.2.8 Microscope</li> <li>1.2.9 Dissecting kit</li> <li>1.2.10 Buckets and basins</li> <li>1.2.11 Fish harvesting gear</li> </ul> 1.3 Disinfecting grow-out rearing unit 1.4 Filling if fish rearing unit 1.5 Carrying out Grow-out rearing unit water	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests</li> <li>• Oral questioning</li> </ul>

	conditioning 1.5.1 Liming 1.5.2 Fertilization 1.5.3 Flocculation 1.5.4 Flushing	
2. Stock fingerlings	2.1 PPEs 2.1.1 Safety goggles 2.1.2 Gumboots 2.1.3 Gloves 2.1.4 Dust coats 2.1.5 First aid kits 2.1.6 Gas mask 2.1.7 Waders 2.2 Selection of tools and equipment 2.3 Fingerlings selection <ul style="list-style-type: none"> <li>• Care and handling of fingerlings</li> <li>• Fingerling transportation methods</li> <li>• Factors to consider when stocking ponds with fingerlings             <ul style="list-style-type: none"> <li>• Timing</li> <li>• Weather</li> <li>• Water quality</li> <li>• Fingerling acclimatization</li> <li>• Stocking procedure</li> </ul> </li> </ul> 2.4 Fingerlings transfer 2.5 Carry out fingerlings stocking 2.6 Post-harvest monitoring of stocked fish <ul style="list-style-type: none"> <li>• Handling fingerling mortalities</li> </ul> 2.7 Signs of stress in newly stocked fish	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests</li> <li>• Oral questioning</li> </ul>

3. Feed grow out fish	3.1 Types of fish feeds Natural feeds  3.2 Pond liming and fertilization  3.3 Fish feeding methods 3.3.1 Hand feeding (broadcasting) 3.3.2 Automatic feeders 3.3.3 Demand feeders  3.3 Weighing feed rations 3.4 Fish feeds methods 3.5 Fish feeding behavior	<ul style="list-style-type: none"> <li>• Oral questioning</li> <li>• Written tests</li> <li>• Practical tests</li> </ul>
4 Manage fish health.	4.3 PPEs 4.4 Selection of tools and equipment 4.5 Fish health signs and symptoms 4.6 Administration of disinfectants, drugs, therapeutic substances and antibiotics 4.6.1 Iodophores 4.6.2 Chlorine 4.6.3 Formalin 4.6.4 Ozonation 4.6.5 Quaternary ammonium compounds 4.6.6 Hydrogen Peroxide 4.6.7 Potassium permanganate 4.6.8 Copper Sulfate 4.6.9 Emamectin benzoate 4.6.10 Florfenicol 4.6.11 Oxolinic acid and flumequine	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests <ul style="list-style-type: none"> <li>○ Oral questioning</li> </ul> </li> </ul>

	4.6.12 Oxytetracycline 4.7 Carrying out prevention and control of fish diseases 4.7.1 Pathogen-free water 4.7.2 Transfer of pathogens 4.7.3 Disinfections 4.7.4 Optimization of environmental conditions	
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### Suggested Methods of Instruction

- Project
- Demonstration
- Practicals
- Discussions
- Direct instruction

### Recommended resources for 25 trainees.

S/NO	Category/Item	Description/specification	Qty	Recommended ratio (item: trainee)
	Projector	EPSOM	1	1:25
	Whiteboard/smartboard	2.5 By 1.5.M	1	1:25
	Desktop/computer		1	1:25
	Classroom	Well-lit with 25 seats	1	1:25
	Sets of Writing materials		25	1:25
	Video clips		5	1:25
	Human resource	Trainer and Technician	2	1:25
	Library	Equipped with table fish production books and E-	1	1:25

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