

PRODUCTION OF TABLE SIZE FISH

ISCED UNIT CODE: 0831 251 02A

TVETCDACC UNIT: AQ/CU/AM/CR/02/3/MA

UNIT DURATION: 150 HOURS

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

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

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Prepare grow-out rearing units	Theory 1.1 PPEs 1.1.1 Safety goggles 1.1.2 Gumboots 1.1.3 Gloves 1.1.4 Dust coats 1.1.5 First aid kits 1.1.6 Gas mask 1.1.7 Waders 1.2 Safety precautions 1.3 Selection of tools and equipment	<ul style="list-style-type: none">• Practical• Project• Third party report• Portfolio of evidence• Written tests• Oral questioning

	<p>1.3.1 Weighing scale</p> <p>1.3.2 Wheelbarrow</p> <p>1.3.3 Water quality test kit</p> <p>1.3.4 Spades</p> <p>1.3.5 Lime</p> <p>1.3.6 Fertilizer</p> <p>1.3.7 Secchi disks</p> <p>1.3.8 Microscope</p> <p>1.3.9 Dissecting kit</p> <p>1.3.10 Buckets and basins</p> <p>1.3.11 Fish harvesting gear</p> <p>1.4 Drain fish culture units</p> <p>1.5 Disinfecting grow-out rearing unit</p> <p>1.6 Filling if fish rearing unit</p> <p>1.7 Carrying out Grow-out rearing unit water conditioning</p> <ul style="list-style-type: none"> 1.7.1 Liming 1.7.2 Fertilization 1.7.3 Flocculation 1.7.4 Flushing 	
Practice	Prepare grow out rearing unit	

2. Stock fingerlings	<p>Theory</p> <p>2.1 PPEs</p> <ul style="list-style-type: none"> 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 <p>2.2 Selection of tools and equipment</p> <p>2.3 Fingerling's selection</p> <ul style="list-style-type: none"> • Care and handling of fingerlings • Fingerling transportation methods • Factors to consider when stocking ponds with fingerlings • Timing • Weather • Water quality • Fingerling acclimatization • Stocking procedure <p>2.4 Fingerling's transfer</p> <p>Practice</p> <p>2.5 Carry out fingerlings stocking</p> <p>2.6 Post-harvest monitoring of stocked fish</p> <ul style="list-style-type: none"> • Handling fingerling mortalities <p>2.7 Signs of stress in newly stocked fish</p>	<ul style="list-style-type: none"> • Practical • Project • Third party report • Portfolio of evidence • Written tests • Oral questioning
3. Feed grow-out fish	<p>3.1 Types of fish feeds</p> <p>Natural feeds</p> <p>3.2 Pond liming and fertilization</p> <p>3.3 Fish feeding methods</p> <p>3.3.1 Hand feeding (broadcasting)</p> <p>3.3.2 Automatic feeders</p> <p>3.3.3 Demand feeders</p> <p>3.3 Fish feeding behavior</p> <p>3.4 Feeding rates, frequency and timing</p>	<ul style="list-style-type: none"> • Oral questioning • Written tests • Practical tests

	3.5 On-farm feed handling and storage 3.6 Maintenance of basic feeding records	
4. Manage fish health.	<p>Theory</p> <p>4.1 PPEs</p> <p>4.2 Selection of tools and equipment</p> <p>4.3 Fish health signs and symptoms</p> <p>4.4 Administration of disinfectants, drugs, therapeutic substances and antibiotics</p> <ul style="list-style-type: none"> 4.4.1 Iodophores 4.4.2 Chlorine 4.4.3 Formalin 4.4.4 Ozonation 4.4.5 Quaternary ammonium compounds 4.4.6 Hydrogen Peroxide 4.4.7 Potassium permanganate 4.4.8 Copper Sulfate 4.4.9 Emamectin benzoate 4.4.10 Florfenicol 4.4.11 Oxolinic acid and flumequine 4.4.12 Oxytetracycline <p>4.5 Carrying out prevention and control of fish diseases</p> <ul style="list-style-type: none"> 4.5.1 Pathogen-free water 4.5.2 Transfer of pathogens 4.5.3 Disinfections 4.5.4 Optimization of environmental conditions 	<ul style="list-style-type: none"> • Practical • Project • Third party report • Portfolio of evidence • Written tests <ul style="list-style-type: none"> ○ Oral questioning

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)