

FISH FARMING

UNIT CODE: 0831 551 15A

TVET CDACC UNIT CODE: AGR/CU/EXT/CR/02/5/MA

UNIT DURATION: 100 HOURS

Relationship to Occupational Standards

This unit addresses the Unit of Competency required to carry out fish farming. it involves constructing fish farming structures, feeding fish, managing fish hatcheries and fish cages, harvesting of fish, processing harvested fish and managing recirculatory aquaculture systems

Unit Description

This unit specifies competencies required to produce fish.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Construct fish farming structures	30
2.	Feed fish	20
3.	Manage fish hatcheries and fish cages	25
4.	Harvest fish	25
Total		100

Learning Outcomes, Content and Suggested Assessment Methods

Learning outcomes	Content	Suggested assessment methods
1. Construct fish farming structures	Theory 1.1 Fish farming structures 1.1.1 Definition of terms 1.1.2 Types of fish farming structures 1.1.3 fish farming site selection 1.1.4 Importance of site selection	• Written tests • Projects • Interviews/oral questions • Individual/group assignments

	1.2 Fish farm structures construction tools and equipment's 1.3 Fish farm water filtration system installation 1.3.1 Construction of auxiliary farm structures 1.3.1.1 Farm stores 1.3.1.2 Roads 1.3.1.3 Fences 1.3.1.4 Offices 1.4 Installation of predator control devices 1.4.1 Importance of predator control devices 1.4.2 Types of predator control devices 1.4.2.1 Netting 1.4.2.2 Scare devices 1.4.2.3 Barriers and enclosures Practice 1.5 Carry out construction of fish rearing structures. 1.1 Install predator control devices	• Practicals
2. Perform fish farm management practices	Theory 2.1 Fish farm management practices 2.1.1 Definition of terms 2.1.2 Importance of fish farm management. 2.1.3 Fish management practices 2.1.3.1 Checking water quality parameters 2.1.3.2 Rearing units' maintenance practices 2.1.3.3 Control of predator, parasite and diseases.	• Written tests • Projects • Interviews/oral questions • Individual/group assignments • Practical

	2.1.3.4 Waste management 2.2 Preparation of fish management records Practice 2.3 Carry out fish management practices 2.4 Prepare fish management records	
3. Manage fish hatcheries	theory 3.1 fish hatchery management 1.5.1 Definition of terms 1.5.2 Hatchery management tools and equipment 1.5.2.1 Uses of hatchery management tools and equipment 1.5.2.2 Maintenance of hatchery management tools and equipment's 1.6 Hatchery pre-stocking activities 1.7 Brood stock management 1.8 Hatchery records preparation Practice 1.9 Carry out hatchery pre-stocking activities. 1.10 Carry out brood stock management 1.11 Prepare hatchery records	• Written tests • Projects • Interviews/oral questions • Individual/group assignments • Practical
4. Harvest and process fish	Theory 4.1. Fish harvesting 4.1.1 Fish harvesting tools, equipment's and materials 4.1.1.1 Fishing nets 4.1.1.2 Fishing traps 4.1.1.3 Longlines and handlines 4.1.2 Uses of harvesting tools, equipment and materials 4.1.3 Maintenance of harvesting tools and	• Written tests • Projects • Interviews/oral questions • Individual/group assignments • Practicals

	equipment.	
	4.2 Fish harvesting methods	
	4.2.1 Trawling	
	4.2.2 Longlining	
	4.2.3 Purse seining	
	4.3 Fish processing	

Suggested Methods of Instruction

- Role playing
- Group discussion
- Direct instruction

Recommended Resources for 30 Trainees

Recommended Resources for 25 Trainees

S/No.	Category/Item	Description/ Specifications	Quantity	Recommended Ratio (Item: Trainee)
A	Learning Materials			
1.	Journals	Aquaculture	5 pcs	1:5
2.	writing materials		50	2:1
3.	Charts		1	1:25
4.	PowerPoint presentations	For trainer's use	1	1:25
5.	Whiteboard		1	1:25
6.	Assorted color of whiteboard markers	For trainer's use	1	1:25
7.	Printers		1	1:25
8.	Projector		1	1:25
B	Learning Facilities &			

	infrastructure			
1.	Lecture/theory room		1	1:25
2.	Agriculture lab		1	1:25
C	Tools and Equipment			
1.	Measuring tape		1	1:25
2.	Aerator		1	1:25
3.	Pump		1	1:25
4.	Wheelbarrow		1	1:25
5.	Shovels		1	1:25
6.	Water taster		1	1:25