FISH HATCHERY OPERATION

UNIT CODE: AQ/CU/AM/CR/03/4/B

Relationship to Occupational Standards

This unit addresses the unit of competency: Operate fish hatchery

Duration of Unit:220 hours

Unit Description

This unit describes the knowledge, skills and attitudes required to operate fish hatchery. It involves ability to apply food safety measures in fish hatchery operation, prepare fish hatchery for stocking, stock and feed broodstock. It also involves harvesting, packaging and transporting fish fry and fingerlings. It further involves maintenance of fish hatchery.

Summary of Learning Outcomes

- 1. Apply food safety measures in fish hatchery operation
- 2. Stock hatchery with broodstock
- 3. Feed broodstock
- 4. Harvest and package fingerlings

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Apply food safety measures in fish hatchery operation	 Introduction to food safety Meaning of food safety Importance of food safety Principles of food safety Prerequisite programmes Meaning and importance of prerequisite programmes Relevant programmes in fish hatchery operation Hazard analysis for fish hatchery operation Types and sources of hazards Significance of hazards Methods of hazard control 	 Written tests Oral questioning Observation

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Components of HACCP plan for fish hatchery operation Critical control points Critical control limits Monitoring procedures on the control limits Corrective actions Verification and validation Record keeping Standards and legislations in food safety on fish hatchery operation 2. Prepare facilities broodstock facilities Safety measures Ouse of PPEs in hatchery operations Ocarrying out basic first aidcuts, CPR, fractures Handling and use of tools, equipment and materials Types of broodstock facilities Fish pond preparation —	
3. Stock hatchery with • Broodstock selection • Written tests	
broodstock • Broodstock acclimatization • Oral questioning	_
 Transfer and stocking Oral presentation Practical tests 	ons
Practical testsProjects	
4. Feed broodstock	
○Interpret schedule • Oral questioning	_
 OWeighing feed rations Feeding methods Oral presentation Practical tests 	ons
Feeding methodsFeeding behaviourPractical tests	
Record keeping	
5. Natural fish • Broodstock – males and females • Written tests	
propagation • Stocking density • Oral questioning • Chapter for free effect 2 weeks	_
 Checking for fry after 2 weeks Harvesting fry Oral presentation Practical tests 	ons
Continue for	
• Projects • Packaging fry	

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6. Maintain hatchery	 Sanitation of hatchery and related 	Oral questioning
facility	components Cleaning and disinfection Waste disposal Water flow rates	Practical testsOral presentationsWritten reports

Suggested Delivery Methods

- Instructor led facilitation of theory
- Demonstration by trainer
- Practical work by trainee
- Viewing of related videos
- Projects
- Group discussions

Recommended Resources

Tools and equipment

Weighing balance, measuring cylinders, harvesting gear, happa nets, buckets, refrigerators,

Materials and supplies

Feeds, fertilizers, assorted bowls, scoops, perforators, basins, packaging materials, sieves, wading suits.

Personal protective equipment (PPEs)

- Safety goggles
- Gum boots
- Wading suit
- Gloves
- Dust coats
- First aid kits
- Life ring
- Life jacket

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