

SET UP FISH POND

UNIT CODE: AQ/CU/AM/CR/01/5/B

Relationship to Occupational Standards

This unit addresses the unit of competency: Set up fish pond

Duration of Unit: 124 hours

Unit Description

This unit describes the competencies required to set up a fish pond. It involves competencies to apply food safety measures in setting up fish pond in carrying out site selection for fish ponds, design and construction of ponds, and repair of fish ponds.

Summary of Learning Outcomes

1. Apply food safety measures in setting up fish pond
2. Prepare to set up a fish pond.
3. Construct fish pond
4. Test run the pond
5. Exit pond construction site

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Apply food safety measures in setting up fish pond	<ul style="list-style-type: none">• Meaning of food safety• Importance of food safety• Principles of food safety• Prerequisite programmes<ul style="list-style-type: none">○ Meaning, importance, categories and establishment of prerequisite programmes○ Relevant programmes for setting up fish ponds• Hazard analysis for setting up fish ponds<ul style="list-style-type: none">○ Enterprise description○ Product description○ Layout of premises and surrounding environment○ Development of flow diagram	<ul style="list-style-type: none">• Written tests• Oral questioning• Observation• Case study• Third Party reports• Project• Practical tests

	<ul style="list-style-type: none"> ○ Identification of hazards at each step of the flow diagram ○ Describing the hazard ○ Significance of hazards ● Establishment of the HACCP plan for setting up fish ponds <ul style="list-style-type: none"> ○ Identification of critical control points ○ Procedures for setting up critical control limits ○ Establishment monitoring procedures on the control limits ○ Establishment of corrective actions ○ Verification procedures ○ Record keeping ○ Validation procedures ● Standards and legislations in food safety on setting up a fish farm 	
<p>2. Prepare to set up a fish pond.</p>	<ul style="list-style-type: none"> ● Fish pond <ul style="list-style-type: none"> ○ Definition ○ Parts of a fish pond ● Classification of ponds <ul style="list-style-type: none"> ○ Material of construction e.g. earthen, concrete, liner, paddy, wooden ○ Purpose of pond e.g. nursery, breeding, production, quarantine ● Site selection <ul style="list-style-type: none"> ○ Importance ○ Factors to consider ● Basic pond design <ul style="list-style-type: none"> ○ Dyke dimensions ○ Bottom slopes ○ Freeboard ○ Inlet, outlets ○ Drainage and ○ Spacing between ponds 	<ul style="list-style-type: none"> ● Written ● Oral ● Observation

	<ul style="list-style-type: none"> • Identification and use of materials, supplies, tools and equipment in pond construction • Costing pond construction • Interpretation of farm layout • Applicable statutory regulations 	
3. Construct fish pond	<ul style="list-style-type: none"> • Safety measures <ul style="list-style-type: none"> ○ Use of PPEs in pond construction ○ Carrying out basic first aid-cuts, blisters, CPR, fractures • Steps in pond construction <ul style="list-style-type: none"> ○ Site clearance ○ Pegging ○ Core trenching ○ Excavation ○ Compaction and shaping of dykes ○ Sloping of the pond bottom ○ Fitting inlets and outlets ○ Trenching of supply and drainage channels ○ Planting grass ○ Fencing off the pond area • Carrying out pond construction 	<ul style="list-style-type: none"> • Written tests • Oral presentation • Observation • Projects
4. Test run the pond	<ul style="list-style-type: none"> • Major defects associated with new ponds • Procedure for test running a new pond <ul style="list-style-type: none"> ○ Filling a new pond with water ○ Allow to settle for 24 hours ○ Observe and mark out major defects ○ Drain the pond ○ Repair of defects 	<ul style="list-style-type: none"> • Oral questioning • Observation • Project
5. Exit pond construction site	<ul style="list-style-type: none"> • Storing recyclable materials and supplies • Disposal methods for non-recyclable materials • Cleaning and storage of tools and equipment • Completion report writing • Handing over procedure 	<ul style="list-style-type: none"> • Oral questioning • Observation • Oral presentation • Written report

Suggested methods of Instruction

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

Recommended Resources

- Tape measure, spirit level, string level, jembes, spades, pangas, pick axe, rake, slashers, hacksaw
- Compactors and rollers, wheelbarrows
- Strings and ropes, liners, pegs, PVC pipes and joints, adhesives, screens, lime, cement, sand, ballast
- Gloves
- Goggles
- Helmets
- Gum boots
- Overalls
- First aid kits