



Animal Production

Level II

Learning Guide #34

Unit of Competence: Assist Fish Production

Module Title: Assisting Fish Production

LG Code: AGR APR2 M 10 LO1-34

TTLM Code: AGR APR2 M 10 0919 V1

LO4. Handle materials and Equipment

This learning guide is developed to provide you the necessary information regarding the following content coverage and topics

- Handling waste material
- Handle and transport materials, tools and equipment
- Dispose and return material
- clean ,maintain and store materials, tools and equipment

This guide will also assist you to attain the learning outcome stated in the cover page. Specifically, upon completion of this Learning Guide, you will be able to :

- Waste material produced during work is handled according to supervisor instructions.
- Materials, tools and equipment are handled and transported according to supervisor instructions and enterprise guidelines.
- Materials are returned to store or disposed of according to supervisor instructions.
- Tools and equipment are cleaned, maintained and stored according to manufacturer specifications and supervisor instructions.

Learning Instructions:

1. Read the specific objectives of this Learning Guide.
2. Follow the instructions described below 3 to 6.
3. Read the information written in the information “Sheet 1, Sheet 2, Sheet 3 and Sheet 4”.
4. Accomplish the “Self-check 1, Self-check 2, Self-check 3 and Self-check 4” in **page -5,6,7 and 8** respectively.

The proper handling of the things we throw away in a manner that does not harm anyone or anything, be it human, animals or the environment. Proper handling includes the collection, transport, processing, recycling or disposal of waste materials produced by human activity in order to reduce their negative effect on the environment. Unwanted materials or substances produced by human activity, which is usually referred to as rubbish, trash, garbage or junk i.e. waste.

Fish Waste - Large amounts of fish guts deposited in an enclosed area can produce foul odors and impair water quality through decreased dissolved oxygen and increased bacteria levels.

Waste handling techniques

- Provide facilities for fish cleaning and carcass disposal.
- Provide a stainless steel sink equipped with a garbage disposal that is connected to a sanitary sewer. (Note: fish heads, large carcasses, and fish skin will clog up the disposal.)
- Provide garbage containers for fish carcasses.
- Empty garbage containers regularly (especially on hot days).
- Prohibit fish cleaning outside of designated areas.
- Implement fish composting where appropriate.
- Use a grinder to make chum out of fish carcasses. Sell the chum at your store.
- Arrange for crabbers to take fish carcasses.
- Prohibit fish cleaning at your marina.
- Educate people on the water quality problems associated with excess fish waste in lake waters.

- All hazardous waste should be sent to a disposal facility that is permitted, licensed, or registered by the state to dispose of hazardous waste.

Self-check -1	Written test
----------------------	---------------------

Directions: Answer all the questions listed below. Illustrations may be necessary to aid some explanations/answers.

1. Write waste handling techniques ? (15 points)

Note: Satisfactory rating - 15 points Unsatisfactory - below 15points

6Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

Short Answer Questions

Information Sheet-02	Handling and transporting materials, tools and equipment
-----------------------------	---

- materials ,tools and equipments required to handle and transported properly .
- it requires to use guidance for proper handlings and transporting.
- during transporting career should necessary for some fragile and toxic materials and equipments.
- Whenever we are going to our work area we have to handle and transport our equipment materials and tools safely. And also after completing our task we have to take them back

to their place (store) safely without any damage on the equipment and ourselves by cleaning and maintaining if necessary.

- materials should handle in a good manner
- put the same material on the same area don't mix with other
- transport carefully for fragile and toxic material

Self-check -2	Written test
----------------------	---------------------

Directions: Answer all the questions listed below. Illustrations may be necessary to aid some explanations/answers.

1. Write proper handling methods

Note: Satisfactory rating - 15 points

Unsatisfactory - below 15points

6Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

Short Answer Questions

Information Sheet-03	Disposing and returning material accordingly
-----------------------------	---

Materials should be returned to store or disposed according to the condition. After the accomplishment of task all necessary materials, tools and equipment must be stored properly or if there is need to be disposed should be done accordingly.

Remove waste from living area and dispose of according to facility policy and procedures (Note: Toxic gases such as carbon dioxide, hydrogen sulfide and ammonia may build up to lethal levels. Never enter storage tank unless absolutely necessary and then with professional assistance on site.) Utilize PPE. Select equipment appropriate for size and type of area to be cleaned.

Review safety procedures with supervisor and follow all safety guidelines. Provide maximum ventilation when store perishable materials. Other facilities and equipment require more frequent inspection. Enter storage tank only when absolutely necessary and only with adequate safety training, Precautions, and equipment, and professional assistance on site. Wear self-contained breathing equipment and be certified in its use.

methods of disposing waste :

- recycling
- burning
- fermentation (used as bio fuel)

Self-check -3	Written test
----------------------	---------------------

Directions: Answer all the questions listed below. Illustrations may be necessary to aid some explanations/answers.

1. write some toxic gases 5 point
2. write methods of disposing waste 10 points

Note: Satisfactory rating - 15 points Unsatisfactory - below 15points

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

Short Answer Questions

Information Sheet-04	Cleaning, maintaining and storing tools and equipment accordingly
-----------------------------	--

- Cleaning refers to removal of matter from a surface on which it is not acceptable. Soil surface should be contact with a cleaning agent for adequate time and sufficient pressure should be applied, if required, to remove the soil.
- Cleaning involves two steps: wash step and rinse step. Equipment should be carefully selected and, washed, and maintained before they can be sanitized
- Use keizen principles

Self-check -4	Written test
----------------------	---------------------

Directions: Answer all the questions listed below. Illustrations may be necessary to aid some explanations/answers.

1. write two steps of cleaning? (3points)

Note: Satisfactory rating 3 points unsatisfactory-below 3 points.

You can ask your teacher for the copy of the correct answer

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

Short Answer Questions