



BUSINESS DEVELOPMENT SERVICES FOR ACTORS WITHIN THE FISH VALUE CHAIN

LEARNER'S GUIDE



August 2021

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WHO TO USE AND HOW TO USE THIS GUIDE?

This Learners' guide contains both questions and answers, illustrations and activities to guide the learners during and after the training on Business Development Services in the fish value chain. This manual summarizes the main concepts which the learner needs to comprehend after the training of every module. The participants need to build on the knowledge and skills they have acquired and that which they already have to reason and come up with different ideas.

This guide is direct and simple to use but the illustrations and questions demand a lot of discussions amongst the learners to get a broader understanding of what is happening and acquire business skills. Learners should be involved in all activities during the training and share experiences with their fellow participants to enable them to learn from each other's experiences.

GOOD LUCK

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INTRODUCTION ABOUT THE LEARNERS'GUIDE

Welcome to the Learner's Guide for entrepreneurs involved in the fish value chain at micro and small scale levels. This guide has been designed to help the learners who are actively engaged in fishing businesses to acquire knowledge, skills, competencies that are critical to business development and sustainability.

This is a learner's guide which compliments the content delivered by the trainers as a means of supporting and maximize the learner's uptake of knowledge. In general, the learners' manual covers the basics of a business, entrepreneurship, business planning, marketing, costing and pricing, sources of business capital, business management, record keeping, soft skills, financial literacy, financial management, financial linkage to banks, fish food defense, fish spoilage, fish processing, fish safety and quality. Given the ever-changing dynamics of COVID-19 and the emergence of new strains, the learners should always observe Covid_19 SOPs and guidelines from the Ministry of Health and other stakeholders.

COVID-19 STANDARD OPERATING PROCEDURES





image sources: <u>https://uccinfo.blog/2020/04/02/press-statement-update-on-the-covid-19-response-in-uganda/https://twitter.com/minofhealthug/status/1402909262519713793?lang=de</u>

MODULE 1: ENTERPRISE TRAINING

1.1 Entrepreneurship Skilling:

Question 1: Who is an entrepreneur?

Answer: A person who creates and develops a business idea and takes the risk of setting up an enterprise to produce a product or service that satisfies customer needs.

An entrepreneur can also be defined as a person who:

- Analyses how best his goods/services can meet the uncertified needs of the customers or society.



- Calculates risks and probability of starting the new venture
- Mobilizes the necessary resources

Question 2: What is entrepreneurship?

Answer:" The process and practice of;

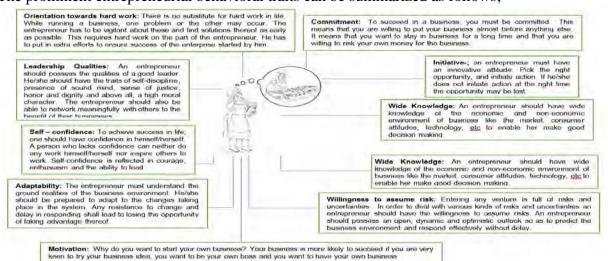
- ➤ Identifying opportunities/business ideas in the marketplace,
- Arranging and investing the resources required to pursue these opportunities
- > Being creative, innovative and leading to enterprise development and growth.
- > Shifting people from being "job seekers" to "job creators" hence creating wealth.

1.2 What are entrepreneurial Skills?

Entrepreneurial skills are the attitudes and qualities entrepreneurs typically possess.

A good entrepreneur must have the following Personal Entrepreneurship Behavioural Traits (Skills)

The prominent entrepreneurial behavioral traits can be summarized as follows;



Self-Assessment

- Who is an entrepreneur?
- What do you think are the characteristics of a good businessperson?
- How can an entrepreneur grow his or her business?

1.3 Fishing as a business

Question 1: What is a business?

A business (also known as an enterprise or firm) is an organization that is engaged in the trade of goods, services, or both to satisfy the consumers to make a profit.

1.4 Types of Businesses

Question 2: What are the types of fish business ownership?

The fish business can be categorized into three types

1. Sole proprietorship

In this form of ownership, the whole business is owned by a single person.



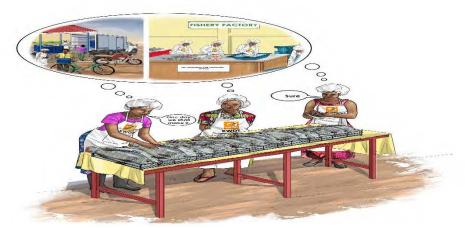
Advantages

- The owner enjoys all the profits of the business.
- The single owner has complete freedom to manage the affairs of the business as he/she desires.
- He/She is answerable to nobody.

Disadvantages

- The owner's liability is unlimited. That is in settling the debts of the business if the business assets are insufficient, the personal assets will also be taken.
- Being owned by a single person, the resources of the business are limited.
- Also accepts all losses alone
- 2. Partnership (owned by a few persons, could be 2-20)

Here, two or more persons join to start a business.



Advantages

- The owners collectively are called the company, and individually, partners.
- The profits and losses are shared by the partners in agreed proportions.
- Since more than one person is involved, the sources of funds to the firm are usually more.
- A partnership could also be formed to combine the resources required for the enterprise. Resources can include skills, money, land, raw materials, etc

Disadvantages

- Freedom of conducting the affairs of the business is restricted as the partner is liable to the other partners.
- Their liability towards the firm's debts is unlimited.
- Delayed decision making since every partnership has to be consulted in case of an action to be done.

3. Cooperative

A cooperative is when people come together to do business with a common purpose and intent. In a cooperative form of ownership, a large number of persons collectively own the enterprise and are involved in its activities. The part owners are called members.



Advantages

- All the members contribute an equal amount towards the capital.
- Share the profits equally and have equal rights.
- Since a large number of owners are involved, the management of the co-operative is entrusted to a small group of members who are elected by the many.
- The financial asset is crucial. The liability of the members is limited. That is; even if the assets of the co-operative are insufficient to satisfy the debts, the members 'assets cannot be touched.
- A co-operative is also more powerful than individuals or partnerships.
- A cooperative represents a large group of people and quite often, this gives it access to Government programs and developmental agencies, which offer financial assistance in the form of grants or interest-free loans.

Disadvantages

- Freedom of conducting the affairs of the business is restricted as the partner is liable to the other partners.
- Their liability towards the firm's debts is unlimited.
- Delayed decision making since every partnership has to be consulted in case of an action to be done.

Self-Assessment:

- 2. What kind of business are you currently engaged in?
- 3. What would be the ideal business that you can do and why?
- 4. Brainstorm on the advantages and disadvantages of a cooperative?

1.5 Personal income statement

Question 3: What is a personal income statement?

A Personal income statement is an outline of an individual's financial position at a given point in time.

- It shows income
- Expenditure
- Whether one is making a profit or loss for a given period.

Personal Income Statement Template

Personal income statement		
Income (monthly)		
e.g Fish sales		
Total Income		
Expenses (monthly)		
e.g Rent		
Food		

Transport	
Taxes	
Air time	
School fees	
Loan payment	
Total Expenses	

Question 4: How can one make business decisions using a personal income statement?

It is from profits that can be generated through income statements that a fish vendor can decide to expand her business or invest in another business.

1.6 Fish enterprise analysis

Question 1: How do you attain a change in the desired business?

Answer: By establishing criteria to use in selecting promising business ideas i.e., one can base on skills they possess e.g., good communication skills, resources they already have e.g., having the capital to start and also the fishing nets

Question 2: What are the different things to consider before starting or venturing into a business?

Answer:



Selecting the business idea

When selecting the business to engage in, use the following criteria to select the best business idea.

Guide to Micro Screening Chart (use number of ticks for each criterion).

- ✓ Very good or positive (5 ticks)
- ✓ Good or reasonable (4 ticks)
- ✓ Indifferent (3 ticks)
- ✓ Difficult or negative (2)
- ✓ Very difficult or negative (1)

Name of	Skills and	Available	Access	Financi	Sufficien	Competit	Total
business	competenci	Equipmen	to Raw	al	t	ors	no.
idea	es	t	materia	resourc	demand		of
			ls	e			ticks

Notes: The Business idea with more votes will mean that this is the best idea in that location.

MODULE 2: BUSINESS SKILLS

2.1 Understanding purchasing

Question 1: What is purchasing?

Answer: This refers to acquiring goods and services for use in the business or organization. *Advantages of purchase management*

- It lowers fish costs by enabling one to source from markets that offer the best possible fish prices eg lower prices.
- It reduces risk and ensures the security of fish supply by moving risks to the suppliers
- It is used in managing relationships for instance during negotiations
- Used to pursue innovation as one is in contact with a variety of other fish businesses.
- Can leverage technology as it encourages one to source for technology solutions to address the value chain problems

2.2 Stock control

Question 2: What is stock control?

Answer: Stock control is the process of ensuring that appropriate amounts of stock/fish are maintained by a business, to be able to meet customer demand immediately while keeping the costs associated with holding stock to a minimum.



Benefits of maintaining good stock control

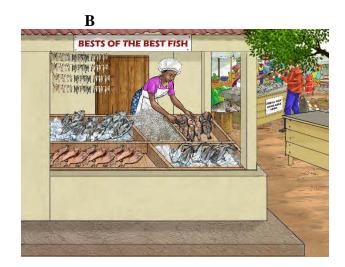
- Increases productivity and efficiency as a fish vendor can sell fish with ease using multiple channels and enables a fish vendor to manage returns.
- Saves time and money since it minimizes a fish vendor to operate on guesswork.
- Improves accuracy of inventory orders thereby minimizing running out of fish stock and overstocking.
- Keeps customers coming back for more.

A stall with the stock of fish in a disorganized way (A) and another stall with organized fish stock (B)

Question: Which is the best way of managing fish stock?

A





2.3 Pricing Question 3: What is pricing?

Answer: Pricing is the process whereby a business sets the price or amount at which it will sell its fish products.

Factors that determine market Prices

- Demand (Market forces of demand and supply determines fish prices)
- Competition (Competition among sellers)
- Cost of production (e.g. transport, taxes, processing, packing, etc.)
- Price skimming (Rumors on fish scarcity or surpluses)
- Economy (price fluctuations due to inflation)
- Psychological (Cure or medicinal associated purposes)
- Discounts (Discounts given or not given during fish purchases)

Review Ouestion?

What have you learned that will improve your purchasing and pricing decisions? At what price do you sell your fish?

Do you make a profit?

MODULE 3: MARKETING SKILLING

3.1 Understanding marketing

Question 1: What is marketing?

Answer: Marketing is everything you do to find out who your customers are and what they need and want while making a profit.

Marketing Involves:

- Providing the fish products, they need. e.g., fish fillet or whole fish, smoked fish, etc
- Setting prices that they are willing to pay
- Getting your fish to them effectively
- Informing and attracting them to buy your fish

- Providing after-sales care and support in buying your fish e.g, providing packaging.
- Understanding the 5 Ps i.e. price, place, promotion, product and people

A lady marketing her fish in a covid-19 situation



3.2 Market and client segmentation

Question 2: How can one market fish effectively?

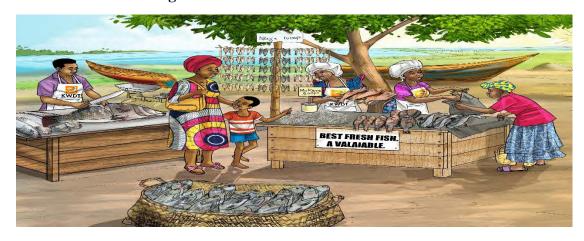
Answer: One can effectively market her fish by conducting a Market Survey and client segmentation

Client segment is the process of dividing customers into groups based on common characteristics.

Types of client segmentation

- Demographics (Age structuring)
- Behavior (eating from hotels, home, etc.)
- Benefits of fish to a group eg medicinal and nutritious like silverfish, lungfish, Nile perch *Haplocrimes*
- Value-based clients who want to buy eg Mputa due to fish maw Needs-based eg

The different market segments



2.4 Marketing avenues

Question 3: How best can one market her fish?

Answer:

- Social networks (family, friends, etc.)
- Use the media, community radios, Newspapers,
- Internet marketing
- Selling directly (commonly used in local markets)



- Point of purchase marketing (fishmonger directs the wholesale fish buyer were to take the produce
- Conversational marketing marketing that talks to consumers e.g engaging with website visitors and converting leads via dialogue-driven activities/ online marketing



Photo showing the ABAVUBI app

3.3 Classifying fish markets

Question 4: How can fish vendors classify their market stalls?

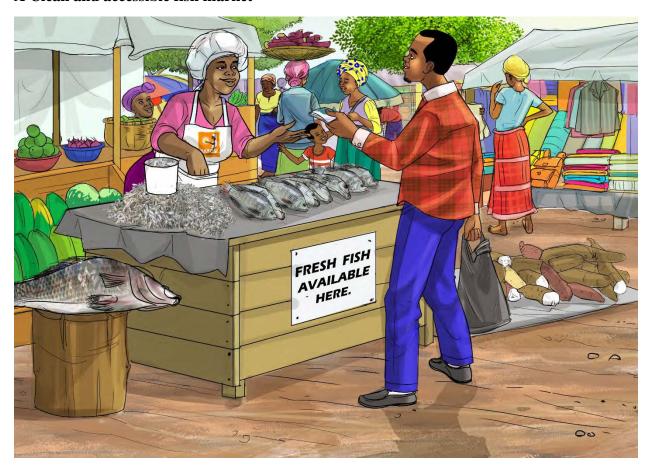
Answer: Markets can be classified according to;

- **Time** (Some fish markets operate in morning hours while others in the afternoon) example of some market areas at the landing sites
- Area (at the landing site for the whole sale or to consumers for retail)
- Nature of goods (fresh, frozen, or smoked).
- 3.4 Nature of competition, demand and supply conditions (some fish dealers have specific selling tactics like haggling, auctioning, etc especially when selling from source/landing site. Attracting and retaining clients

Question 5: How can fish vendors best attract and retain clients?

Answer: Fish vendors can best attract and retain fish clients by knowing what sets them apart. i.e. what makes her different from others (Branding, Name, packaging, quality, and quantity, etc.). The fish outlet should also be in a location that can be easily seen, clean and accessible for self-marketing.

A Clean and accessible fish market



MODULE 4: SOFT SKILLING

4.1 Soft skills

Soft skills are the competencies that enable you to fit in at a workplace. They include how you interact with colleagues, how you solve problems, and how you manage your work. These may include; personality, attitude, flexibility, motivation, and manners, Interpersonal (people) skills, communication skills, listening skills, time management, and empathy among others.

4.2 Expounding on some soft skills

Question: What are essential personal relationship-building behaviors?

Answer: These are skills necessary for one to be successful in business and they include; Persuasion and networking, negotiation, listening to others, demonstrating leadership.

Persuasion and networking

Question 2: What is persuasion?

Answer: Persuasion is a way of convincing someone to get something or make a decision in your favor.

Question 3: What is networking?

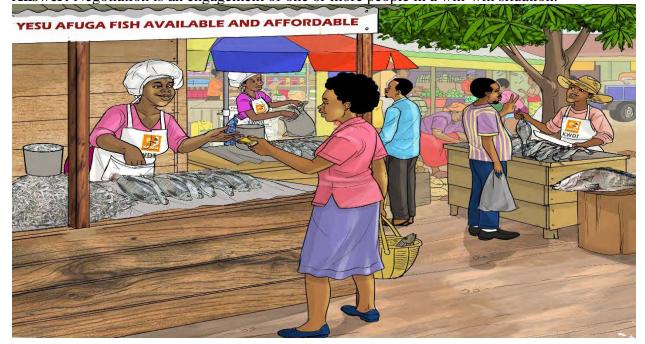
Answer: Networking is an extended group of people with similar interests or concerns who interact and remain in informal contact for mutual assistance or support

Factors that affect persuasion and networking

- Socio-cultural background and perceptions (how we see things differently)
- Communication skills (both verbal and non-verbal).
- Negotiation skills

Question 4: What is negotiation?

Answer: Negotiation is an engagement of one or more people in a win-win situation.



Question 5: What is self-confidence in negotiation?

Answer: Self-confidence is the state of being certain that a chosen course of action is the best or most effective given the circumstances.

Characteristics of a self-confident person

- **Risk-taking**; Willing to take risks and go the extra mile to achieve better things.
- **Independent**; Entrepreneurs like to be their masters and want to be responsible for their own decisions.
- **Perseverance.** Ability to endure and survive setbacks and continue to build confidence in whatever you do in your business.
- Able to learn to live with failure.
- Ability to find **happiness and contentment** in work.
- Doing what you believe to be right, even if others mock or criticize you for it.
- Admitting mistakes and learning from them

REMEMBER: HIV/AIDS IS REAL AND IT KILLS

Facts about HIV/AIDS	HIV Risk reduction methods
•HIV is the virus that causes AIDS	•Abstaining from sex
•One does not develop AIDS as soon as he or	•Reducing the number of sexual
she becomes infected with HIV and during	partners (one partner)
this period 5-10 years many may not be	Using condom
aware that they are infected	•Avoiding sex with people who
•HIV is found in blood, semen, vaginal	may have multiple partners or are
fluids, and breast milk	engaging in other high-risk
•HIV is spread in three ways; Sexual contact	activities such as commercial sex
with an infected person, From infected	or drug users
mother to baby before or during breast-	•Getting treated for other STIs
feeding after birth and through infected	_
blood and blood products (including sharing	
needles and through blood transfusions)	

MODULE 5: FINANCIAL MANAGEMENT COMPONENT

5.1 Personal and business cash:

Question 1: What is the relationship between personal cash and business cash?

Answer: Personal cash is the money that is at your disposal for personal use. Business money is the cash that is invested in the business and that which is generated by the business itself.

- Business cash can become personal cash
- Secondly, business cash can become personal cash if one is earning a salary out of the business. This can be done through commissions/ bonuses and allowances.
- Thirdly one earns personal cash from business through business commissions/bonuses and allowances

Question: Why should we separate personal and business money

Answer: There are many reasons why we should separate personal and business money for many reasons. Some of these may include;

- To understand how the business is performing i.e business status
- To enable the business to grow
- To improve the performance of the business

a



NEVER MIX BUSINESS MONEY WITH PERSONAL MONEY

Question 2: What is personal money-drawing from a bank?

• **Answer:** A drawing is any money from a business for private use. An example is drawing cash from the bank or safe for personal treatment.

5.2 Income and expenditure

Question 3: What is income?

Answer: "income is the sum of all the wages, salaries, profits, interest payments, rents, and other forms of earnings received in a given time

Sources of Income	Income-generating activities
• By producing and selling goods such as fresh fish or	• Producing and selling local brew
smoked fish	 Drying and selling fish
• By buying and selling goods e.g. fish trader buys from a	 Producing and selling bread
fisherman and sells to a school	Weaving mats
• By giving a service (like a taxi driver who provides	 Producing and selling cassava
transportation)	 Producing and selling rice
• By receiving gifts from friends or family members	 Receiving donations
By getting a loan	-
By inheritance	

Question 4: What is an expense?

Answer: An expense is money spent on something.

Example of necessary expenses

- Transport
- Market toll/taxes
- Electricity
- Business-related phone bills
- Rent
- Purchase of stock, material, or ingredients (like fish and firewood for fish smoking, fabric for dressmaking, flour for bread baking);

5.3 Profit and loss

Question 5: What is profit and loss?



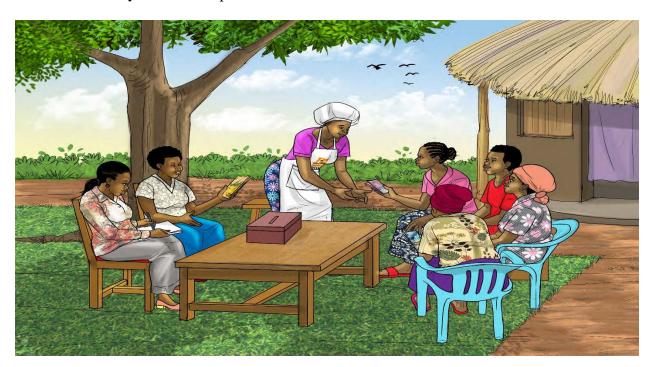
¹**Answer:** Profit is the investment **gain** or **rewards** that entrepreneurs aim to get to reflect the **risk** that they take.

Profit - means that there is more money coming in than going out.

Loss - means that you spend more money on producing or buying your products than you earn from selling goods and services

Question 6: What are savings?

Answer: Savings is money that is not spent or money kept for future use. Are savings only for a business or for any other development? Answer......



5.4 Capital for business

Question 7: What is capital and its sources?

Capital refers to the financial resources that businesses can use to fund their operations like cash, machinery, equipment and other resources.

The sources of capital are both Internal and external

Example of Internal sources of savings

These are savings from own/personal business

- **Personal Savings;** Through daily fish sales or other alternative income-generating activities
- Accumulated profits; This is accumulated after deducting daily expenses from income
- **Family contribution**; Family members can contribute directly or indirectly to one's own business through direct capital, transport, labor, etc.
- **Selling of personal assets;** These personal assets sold can be in form of land, cows, goats, pigs, etc.

¹ https://www.score.org/resource/12-month-profit-and-loss-projection

Advantages:	Disadvantages:
• They contribute to independent mind/own	• The contribution may be too small
decisions in planning and usage	• There is the danger of relaxation i.e. no
• They do not attract extra costs – (interest)	completion of tasks
• The owner has total control and benefits	

External Sources of Capital

These are sources of capital, which may come into the business from outside circles like friends, donors other than family. These may take the form of local and international donors and they may be in form of gifts, offers/donations/grants.

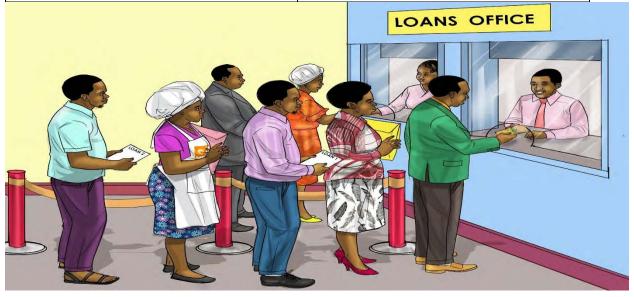
Advantages	Disadvantages:
• They are free and at no cost	• Not reliable
	• Not timely
	 May have strings attached

Other sources of external funds include;

Loans

These can be from the bank, Microfinance, moneylender, NGO/KWDT, Small Savings and Investment clubs

ii ostiiont otaas		
Advantages:	Disadvantages:	
• They are a source of extra resources,	• Interest charges	
technology, business materials and	Not timely	
equipment	Tight repayment obligations	
• They enforce hard work and discipline	• External control of one's business	
since one has to work hard to repay with	• Risk of loss of one's assets in case of	
interest/penalty	business failure	
• Introduces control, since it has to be		
repaid thus instigating financial discipline		
to the borrower.		



Supplier's credit; You can get the fish from your supplier without paying upfront. They can give

you fish, sell and then pay after selling.

Advantages:	Disadvantages:
A stable way of obtaining supplies	High prices
No interest charges	• Inferior supplies
• Reduction in operational expenses –	• Inflexibility in planning supplies
(ordering, etc.)	

Venture capital

These are funds availed by rich individuals for professional funds managers to manage as an investment. The funds are availed to business people at terms and conditions defined by the fund managers.

Advantages	Disadvantages
A stable way of obtaining funding	Terms may be unfriendly
• The terms may be friendly	Available funds may be limited

Self-Assessment I:

- 1. What key lessons do you get from this topic?
- 2. What is the ideal way of raising capital for business?

6.1 Financial management

Question 1: What is financial management?

Answer: Financial management involves planning and ensuring business activities and networks are running as expected. For Example;

- Buying the right material at the best possible prices and at the right time
- Meeting the customer's need
- Controlling business transactions and ensuring there is money to buy, transport fish, package, etc
- Keeping a record of the business finances, stock and investments
- Ensuring the business is growing and making a profit

6.2 Record keeping

Question 2: What are records?

Answer: Records refer to the information created, received, and maintained as evidence by a person, in pursuance of legal obligations or business transactions, or instance, a receipt book is a record of cash entering/coming into a business, records on fish bought, fishing equipment owned.

Daily sales record form

DAILY CASH RECORDS							
DATE	•••••						
S/N	PARTICULARS	QUANTITY	PRICE	AMOUNT			

TOTAL SALES		

Receipt book

NAME OF BUSINESS ADDRESS TIN 000-01100	
DATE	
Received from	•••••
Being payment of	• • • • • • • • • • • • • • • • • • • •
Amount in words	
	Amount in figures
Signature of receiver	

Inventory record book

No.	Description	Qty	Beginning	Purchases	Sales	Loss

Credit book

	NAME:						
ADDRE	SS:						
DATE	DESCRIPTION	CREDIT	PAYMENT	BALANCE	SIGNATURE		
	Total						

Debtor book

DATE	DESCRIPTION	DEBT	PAYMEN T	BALANCE
	Total			

Proforma Invoice

Date	Pro	forma		
Proforma invoice no	Invoice		Sent to:	
			Company	
Sent by;			name	
Company name			Dept	
Department				
			Address	
Address				
			Country	
Country				
			Currency	
Description of goods	Qty	Price	VAT	Total
TOTAL VALUE				
Authorized Signature				



Question 3: Why do we need records?

- To control business capital, especially cash.
- To show the direction of the business.
- To plan for the future.
- Records allow business people to oversee expenditures, costs, and profit
- Records help to analyze business development over time.



6.3 Tools used in financial management

QUESTION 4: What are the tools in business transactions?

Tools are documents that help store information safely and methodologically. Each type of document used in the business should be stored separately. Some of the recording tools the fish business should have include;

- Daily sales record;
- Receipt book

- Cashbook; The book in which we write all the money that comes in and goes out is called a 'Cash Book'. You can use a standard arithmetic exercise book as a 'cash book'. The cashbook is used to record all-cash transactions of the business usually after a specific period, that is, monthly, quarterly, semi-annually, or annually.
- Inventory Record Book
- Credit Book
- Debtor book
- Proforma Invoice

Simple Cash Book Entry

Financial record-keeping means that you write down all the money that comes in and the money that goes out.



The following symbols are used:

Money in = Money becomes more, so we use the addition sign (+)

All money that **comes in** is written on the **left page** (LEFT)

Money out = Money becomes less, so we use the subtraction sign (-)

All money that **goes out** is written on the **right page** (RIGHT)

Example of a Filled in Cash book

Example of a 1 mea in Cash soon					
DATE	MONEY IN	AMOUNT	DATE	MONEYOUT	AMOUNT(shs)
		(shs)			
20-Jan-09	10 pcs of fish	2,000	1-Jan-09	Purchased machinery	3,000
25-Jan-09	14 pcs of fish	2,800	7-Jan-09	Payment of salary	1,200
29-Jan-09	20 pcs of fish	4,000	16-Jan09	Transportation	800
	Total	8,800		Total	5,000

6.4 Making business decisions by Compiling a basic profit and loss statement

Question 5: What is a profit and loss statement?

- A profit and loss statement is also called an income statement and it shows the revenues and expenses of the fish business and the resulting profit or loss, over a specified period (a month, quarter, or year).
- **Profit** means that there is more money coming in than there is going out.

• **Loss** - means that you spend more money on producing or buying your products than the money you earn by selling goods.

PROFIT = TOTAL SALES less TOTAL COST

Example of a Filled in Profit or Loss Formula

Sales	Costs	Profit or Loss
SHS 100,000	SHS 75,000	SHS 25,000 (Profit)
SHS 100,000	SHS 125,000	SHS 25,000 (Loss)
Total Sales greater than total costs		= Profit
Total costs greater than total sales		= Loss
Total sales = total costs		= Break Even

Money in - Money out	= Profit or Loss or Break Even
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Question 6: What are the elements of a profit and loss statement?

- List of all transactions in the fish business (Checking account and all purchases made)
- Petty cash or other cash transactions for which one has receipts
- List of all sources of income, cheques, credit card payment
- Information on reduction to sales (discounts or returns)

Improving profit margins

Question 7: What is the required Profit margin in a fish business?

Answer: Fish business profit margin measures the percentage of revenue your business keeps after paying for outgoing expenses. Tracking a business profit margin helps to monitor business health and it enables better decision making in the future.

Question 8: How do you improve fish sales profit margin?

Answer: Fish profit margin can be improved by lowering costs, expenses and increasing sales.

Costs can be lowered by;	Sales can be increased by:
• Optimizing vendor relationships	Sale on old inventory
• Looking for alternative solutions to current	• Increasing prices
processes	• Use up-selling and cross-selling techniques
• Cut offerings that do not do well or sell	• Increase customer retention
• Reduce business and operating expenses	• Improve inventory visibility proper
• Identify and eliminate waste	display.

6.5 Costing and Pricing

Ouestion 1: What are costs?

Answer: Costs refer to all the money your business spends to make and sell your fish.

Question 2: What is costing?

Answer: Costing is the way you calculate the total costs of making or selling the fish.

Importance of Costing

Costing helps your fish business to:

- set prices
- reduce and control costs how
- make better decisions about business
- plan for the future



Types of Costs

- 1. **Fixed costs:** Fixed costs are costs that do not vary with the level of output in the short term. Examples of these may include; rent, salary for permanent employees, market levies, etc.
- 2. Variable costs; A variable cost varies in direct proportion with the level of output. Varying directly means that the total variable cost will be dependent on the level of output. If output doubles, then the variable cost would double. If halved, the variable costs would halve. If output were zero, then no variable costs would be incurred. They may include the causal laborers, raw materials, packaging costs, etc
- **3. Overhead costs;** are what it costs to run the business, including; electricity, water, personal protection equipment/ mandatory wear. They are operating expenses are required to run the business and cannot be avoided. Overhead expenses should be reviewed regularly to increase profitability.



Question 3: What is fish pricing?

Answer: Fish pricing is the determining of how much the fish will be sold. These are considered when setting a price for the fish.

The price you charge should consider these:

- i) That all the cost of production is recovered
- ii) That there is a profit
- iii) That the price reflects the quality/value of your fish
- iv) That the price is not too high or too low to push you out of competition

Therefore, find out:

- a) What your competitors charge
- b) Whether the majority of your target consumers will afford the price of the fish

Question 4: How best can one develop a pricing strategy?

Answer: For example, a fish vendor can make minimum profit in the early months through low prices, but capture the market for the product and increase prices later. This however requires the fish business to know the minimum level of production and prices at which it recovers all its costs (break-even point)

Question 8: What is credit?

Answer: This is buying and selling without cash.

Rules to keep while buying or selling on credit

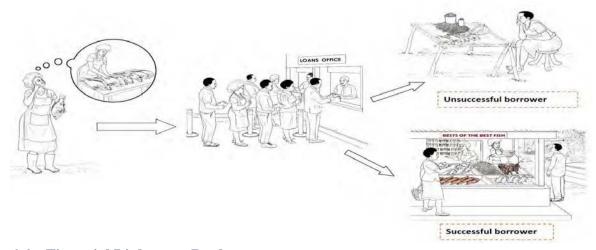
- Only sell on credit to regular customers who you are sure will pay you back on time
- Demand payment of part of the amount.
- Always carry sufficient cash to buy new stock.
- Keep records of people who buy from you on credit.
- Always pay back and in time.

Advantages and Disadvantages of Selling on Credit

Advantages	Disadvantages
• It is a service to your customer and	Your customers may linger in repaying or may not pay you at all
it will attract some customers.	There may be quarrels over the repayment
	• Can easily add to a lot of money which makes it difficult for you
	to remember if no records are kept, who should repay you and
	how much
	• The money that your customers still owe you cannot be used to
	purchase materials or upgrade your business

Advantages and Disadvantages of Buying on Credit

Advantages	Disadvantages
To buy stock in a season when it is cheap (such	There may be quarrels or confusion over
as fish, cassava), preserve and store it and sell it	repayment.
when the prices are high.	You may forget that you owe someone money.
To enable you to buy cheaper in bulk (items such	There is a tendency to buy unnecessary things.
as flour).	Sometimes you have to pay more when you buy
To include seasonal high expenses (such as	on credit (interest charges).
plugging).	-



6.6 Financial Linkage to Banks

Question 1: Why is bank account opening necessary in the fish business?

Answer: It helps to safely keep fish business money

Question 2: How can a fish vendor assess the need for a loan?

Answer: it is important to examine all aspects of the business carefully to determine whether the money sought is required. Even if money is required, the following options should be examined before considering a loan:

- Is there any non-moving or slow-moving stock that can be disposed of by offering it at a low price for quick cash instead of expecting a good price and waiting for it?
- Are there any debts remaining uncollected due to disputes etc. that can be settled by agreeing to get a little less than what is owed?
- Are there any idle surplus assets that could be sold?

Question 3: What are the necessary pre-requisites and documents required to access a loan? **Answer:**

Pre-requisites for the loan	Documents required
• The moneylender collects information from	Key document necessary to access a loan
the borrower and checks the capacity to pay	• Identity (Passport, National ID, or driving
back the loan.	permit)
• Then also considers the capital that is readily	• Address (Work/Home)
available in the business in form of savings,	• Bank statement for at least previous 3 months
investments and other assets.	Business name
• The lender also does a background check for	Security
the credit, historic record of paying debts and	Documents to identify the borrower
paying bills.	Loan application
• The lender also takes into account the value	Financial statement
of the property that the business owners have	• Type of business (Sole, partnership, limited
as collateral.	liability, limited by guarantee without share
• The loan application is either approved or	capital)
rejected	• Resolutions for partnerships
	• Articles and memorandum of association/
	By-laws

- Certificate of Incorporation (URSB)

 Documents to evidence the debt
- Collateral valuation documents
- Loan agreement
- Commitment letters

Documents to attach and support various types of collateral

- Security agreement
- Deed to secure debt
- Guarantor agreement
- Landlords waiver
- Insurance policies

Self-Assessment I:

- 1. What is financial management?
- 2. What is record keeping and why is it important?
- 3. What tools can be used in financial management?
- 4. How can a basic profit and loss statement help in making a business decision?
- 5. What is costing and pricing?
- 6. What are the key documents required for accessing a loan?
- 7. What makes one a good borrower?

MODULE 6: FISH HANDLING

7.1 Defining fish handling

Question: What is fish handling?

Answer: "Fish handling is defined as;" Careful handling of fish right on boat or canoe or during transportation to landing site, market or processing plant or factory.



7.2 Defining Constituents of fish handling

- "Fish spoilage" is defined as a process of deterioration in the quality of fish, such changes can be fish appearance, odour/smell and taste arising from intentional and non-intentional causes.
- "Food defense is defined as; the protection of food products from intentional contamination/adulteration with the motive to cause harm. Food defense also involves putting in place measures to reduce the intentional contamination of food.
- "Food safety" Food safety addresses unintentional adulteration/contamination of food. "Food safety" includes quality and safety through the whole fish value chain. In most cases, the aim is to ensure that such fish does not cause harm to the consumer.

7.3 Expounding On Fish Spoilage

7.3.1 CAUSES OF FISH SPOILAGE

Question: What causes fish spoilage?

Answer: Fish spoilage is caused by many factors which can be broadly categorized into **biological**,

chemical and physical factors

Fish spoilage factors categorizations				
Biological; These are factors that are	Physical; Physical factors are	Chemicals		
mainly attributed to small organisms	those that are based on the			
which cause fish spoilage. These can be	natural world. Many factors in			
further classified into;	the natural world cause fish			
	spoilage.			
 1. Spoilage due to enzymes found in the fish Enzymes are chemicals found in fish that help in the digestion process when these fish have eaten their food. These enzymes are found in the fish stomach. When fish is not either chilled or frozen early then these enzymes can cause fish spoilage very fast and hence affect the texture of the fillet. 2. Fat spoilage Fat corrosion (disintegration of fats) is a major cause of deterioration and spoilage in fish. Some fishes such as Mukene are more prone to this type of spoilage. 2. Missockiel/Posterial spoilage 	These include among others; • Ambient temperature; fish can be preserved is some recommended temperatures. The change in those temperatures can cause rapid deterioration of the fish. This usually happens from muscle breakdown and increased enzymatic activity.	• The fish has a belly/stomach which contains some water in which the intestines are suspended. This has some chemicals which are not removed at some stage may cause fish spoilage. Such spoilage is hence attributing to such chemicals which exist in		
3.Microbial/Bacterial spoilage		that water.		
• Small organisms that cannot be seen by		mat water.		
our naked eyes called bacteria that are				

always in the fish stomach when alive	
cause fish spoilage.	
Bacterial growth and metabolism are a	
major cause of fish spoilage, which	
produces unpleasant and unacceptable	
off-flavors in all fish so long as it not	
preserved.	

REMEMBER THAT FISH WITH HIGH-FAT CONTENT AND WEAK MUSCLES ARE VERY PRONE TO SPOILAGE

7.3.2 IDENTIFYING SPOILT FISH

Question: How to identify a spoilt fish:

Answer: A spoilt fish can be identified based on changes in color, texture, smell/odor, the color of eyes, the color of gills, the softness of muscle at times belly bursting.

The table shows the different characteristics to consider when assessing spoilt fish.

Characteristic to consider	Fresh fish	Spoilt
Smell	• pleasant and neutral.	• an unpleasant, sharp smell
Eyes	• bulging and shiny	• cloudy and sunken into the head.
Gills and fins	 moist. nice, bright red color	• dry, covered with sticky slime, grayish-brown in color and smell bad.
Skin	 moist, unharmed and has a naturally metallic glow Scales must be tightly attached to the body Fish slides out of your hands 	Discoloration and cracked skinStarts losing its scales.
Slime	equally distributed over the fishit is clear and odorless	murky and dirty and has a sour smell
The body	 specific consistency and appearance When pressed it should bounce back	Soft, grey and inelastic
Belly	 shiny and undamaged the anal opening is tight	Anal opening of old and sticks outyellow-brown in color.

7.3.3 IMPLICATIONS OF FISH SPOILAGE

Question: What are the consequences of fish spoilage?

Answer: There are quite several consequences that might occur due to fish spoilage and these may include among others;

• Loss to the entrepreneur such as loss of operating capital

- Loss of customers and marketability
- Affect people's health due to contaminants

REMEMBER: YOUR GENDER SHOULD NOT BE A LIMITATION TO ACHIEVING YOUR DREAMS AND GOALS.



- 1. What do you understand by the term gender?
- 2. What local experiences limit you as a woman or man to achieve your goals?
- 3. How do you overcome such limitations to achieve your goals?
- 4. How has gender helped the fisherwomen in the fisheries development?
- 5. What has been the role of gender as far food defense is concerned?

7.4 Expounding on Food defense

7.4.1 Intentional practices leading to AND Safeguarding against intentional fish contamination

Question 1: What intentional practices do fishermen and women use to protect fish from intentional adulteration and where can they happen?

Answer: Examples of deliberate practices which can lead to adulteration

- Malicious damage; pouring chemicals on fish, (this can happen from disgruntled friends or employees and intruders)
- deliberate contamination with soil, human hair on the fish
- deliberate laceration (cut, scratch, dismember or break the fish)

These can happen during;

- o Operations in the lake and at the landing site
- o Transportation to the market
- o At the stall in the market and processing
- o Storage
- Packaging

Question 2: How can these intentional/deliberate practices that cause adulteration/contamination of fish be guarded against?

Answer: These intentional practices can be guarded against through;

- Setting by bye-laws; rules set up by the people to govern the fish products
- Appropriate **security systems** such as having locks on all storage facilities, strict market operation times.
- **Inspecting of fish;** checking of fish before distribution to market and within the market.
- Setting up **community grievance redress mechanisms**; To address existing wrangles for the traders which could be the cause of deliberate food contamination with intent to cause loss.
- Setting up **market standards** such as deliberate sampling of fish products in the market.

7.4.2 Personal hygiene AND SANITATION

Question: What is personal hygiene?

Answer: Defining body Hygiene²

- ➤ Good personal hygiene involves keeping all parts of the external body clean and healthy. If we don't hygienically keep our bodies, germs can grow it making us vulnerable to infection and fall sick. We can also infect others with germs.
- Socially, many people may avoid you once you have poor hygiene resulting in isolation and loneliness.
- As a person involved in the business may chase away customers because of poor hygiene.



Question: What are the types of personal hygiene

Answer: There are many types of personal hygiene but some examples are provided below;

	e are many types of personal mygrene out.	solile citatilpies are provided solovy
Type of	Definition or explanatory notes	How to maintain good
personal		personal Hygiene
hygiene		

² Adopted from https://www.medicalnewstoday.com/articles/personal-hygiene#summary

Dental	 This involves caring about our teeth through brushing using the toothbrush of a shrub after every meal and before going to bed This avoids bad breath and keeps our teeth white. It prevents diseases such as tooth decay and gum diseases 	ng day
Body	➤ We sweat a lot and if we don't clean ourselves very well, we end up smelling	 bathe daily, using soap and water We can always wear a deodorant which is not very strong to avoid inconveniencing others The private parts and armpits need to be cleaned well and shaven
Hand Washing	 Regular hand washing is one of the best ways to avoid spreading diseases that ca affect one human to another. Hand Washing should be done among other times; before, during, and after preparing food in this case, food before eating food before and after looking after anyone w is vomiting or has diarrhea before and after treating a cut or wound after going to the bathroom after changing diapers or cleaning up a child who has used the toilet after blowing the nose, coughing, or sneezing after touching garbage or dirty surfaces objects after handling pets or pet-related items, such as food 	running water, then turn off the tap and apply soap. Lather the hands by rubbing them together with the soap, remembering to reach the backs of the hands, between the fingers, and under the nails. Scrub the hands for at least 20 seconds, which a person can time by humming the "Happy Birthday" song twice. Rinse the hands well under clean, running water. Dry the hands using a clean cloth
Finger Nails	Fingernails may harbor dirt and germs, contributing to the spread of bacteria. It easier for dirt and germs to collect unde longer nails, so keeping them short can help reduce the risk of spreading infections.	Removal of any dirt in the nail
Menstrual Hygiene	Women need to keep hygienic during the menstruation periods.	change sanitary products regularly and wash the hands before and after changing

	tampons, pads, or any other
	sanitary products.

Question: What is sanitation?

Answer: Sanitation is the process of keeping our environment healthy and clean.

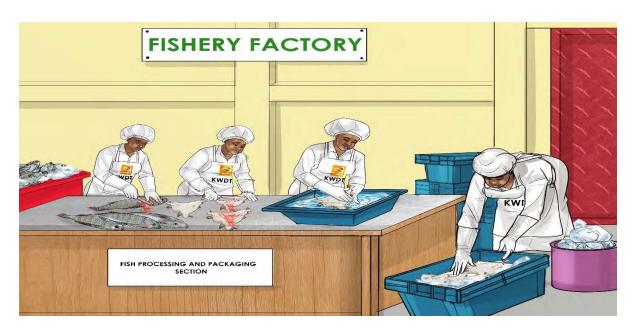


Question: How do body hygiene and sanitation relate to the fish value chain?

Answer: The answers are given in the table below;

Parameters			Fish Value Chai	ins	
	At The Lake	Landing Site	Transportation	Processing	Marketing
Personal hygiene	Use clean clothing and hands to handle fish.	 Use clean clothing and hands when handling fish Ensure hand, washing practice: washing hands with dirty water or without soap should be avoided. Wash hands after going to the toilet; Wash hands after handling pets such as dogs and cats; Put on white gum boats and white laboratory coats to ensure the tidiness of the fisherfolk at the landing site 	 Avoid sitting on the fish while transporting The fish should be well preserved with ice flakes in a better storage container. 	 Wash hands before and regularly while handling and processing fish products. Cover the hair while handling fish products Do not Handle fish while sick with diarrhea, vomiting, or having skin infections; 	 Ensure that you cover cuts and wounds. Avoid long dirty fingernails Avoid the wearing of jewelry on hand and wrist which provide grounds for the germs; Avoid coughing and sneezing over food;
Sanitation	Clean the boat and	Toilets should be 30 to 50	Less time during fishing		There is need to use
(Environme	equipment is	meters away from water	and transportation of fish	1	insulated ice or plastic boxes
nt hygiene)	using clean water and soap.	sources; The water source for	on landing to avoid spoilage	will be at a different stage of spoilage	for fish packaging Packaging material should be
	The boat should	animals is separated from	Control the temperature	The container used for the	clean, durable and sufficient
	not have holes thus	the one for human use;	of the fish by using ice	transportation of fish should be	for its intended use and of
	seaworthy and life	The pit latrine should be	such as Nile perch	clean after every use.	food grade material
	jackets clean and	ventilated and covered.	When fish is, brought	Fish handlers at every	You can use baskets which
	ready for use.	Handwashing facilities must	from the lake should be	processing stage should learn	are cheaper must be used
	The fishing boats	be available	handled on a clean slab	about and adopt good hygiene	when is to be sold quickly
	should not be used		at the landing sites	practices.	

to transport other	Water containers are	before being placed in	Proper storage of fish in proper	If a woman is using
items apart from	covered	the iced vehicle.	containers to avoid spoilage	polythene for lining, the
fish to avoid	Place rubbish in covered		Fish waste can be re-processed	boxes while packaging dried
contamination	containers to avoid flies that		to produce oil such as the	fish not to have water to
risks;	may contaminate fish.		intestines of Nile perch can be	avoid mold (fungal) growth
Use of clean water	The fishing compound must		used for oil extraction.	and high contamination.
on board to avoid	be kept clean at all times		Then the remaining waste	For dried fish, the women
fish spoilage	All fisherfolk are supposed		products such as fish waste can	are encouraged to use
Use of ice flakes	to pass through the foot dips		be used in the production of	traditional baskets from
for fish	wherever they are		silage; used as food for	natural fibers and, wooden
preservation	constructed. This helps to		domestic animal/aquaculture;	boxes.
Individual fish	prevent transferring bacteria		(processing)	
handled with care	to the processing areas.		Secondly, we can also utilize	
on board	Avoid animals into the		fish waste can be used as	
	fishing boat.		fertilizer inland farming	
	After use, allow the fishing			
	boat and equipment to			
	sundry.			



7.4.3 FISH PRESERVATION

Question: What is fish preservation?

Answer: Fish preservation is the method of increasing the shelf life of fish and other fish products to keep the fish, after it has landed, in a condition wholesome and fit for human consumption.

Question: What are the types of fish preservation?

Answer: There are many types of fish preservation. But in the context of fishing in Uganda, the following have been considered.

A) Fish smoking

The advantage of modern fish smoking kilns of facilities

- Efficient firewood use;
- Improved heat and smoke circulation;
- Reduction of smoking time;
- Increase of quantities that can be smoked at once;
- Use of trays reducing tediousness of the process;



- The trays form a chimney to trap the smoke and heat;
- Heat and smoke required during the smoking process can be regulated;
- Uniformly smoked product of better quality in terms of color, shape and taste;
- Handling of the fish during the smoking process greatly reduced;
- The product acquires a higher market price.

B) Sun drying of fish



- Sun drying is good for silverfish such as Mukene to be placed on a rack to avoid spoilage and fast dry.
 - Cover the silverfish or other pelagic fishes such as haplochromines on the rack in case of rain to avoid spoilage.
 - After drying this fish should be placed in proper storage to avoid spoilage such as dry places, better ventilation to avoid fungal development on the fish.



PLEASE PLEASE NEVER sundry the Mukene on or near the ground especially if it's for human consumption.

C) Salting fish



Salt is applied to fish by the following basic methods:

- The fish are immersed in a solution of salt in water.
- Granular salt is rubbed into the surface of the fish.
- Granular salt is rubbed into the surface of split fish and the fish are stacked with a sprinkling of salt between each layer of fish.
- Salt applied should be at 270 360 grams of salt to each liter of water to be applied on fish.
- Fish are covered with salt and then packed in watertight containers in layers with salt

D) Effective fish icing

- Use only good quality ice made of potable water, in well-maintained ice plants;
- Always store ice in clean containers;
- Avoid large and sharp-edged pieces of ice which can damage the fish;
- Ice the fish immediately after the harvest;
- Use at least 1kg of ice to preserve 1 kg of fish;
- Icing must be placed at the top and bottom of boxes and preferably mixed with the fish inside the box. This will cool the fish more rapidly
- Ensure proper drainage of melted ice water from boxes

7.4.4 DEVELOPING A FOOD DEFENSE PLAN

Question: What is a fish defense plan?

Answer: The food defense plan helps you identify steps you can take to reduce the risk of contamination of the fish products in your business.

Question: How is a food defense made?

Answer: The defense plan can be developed based on the following:

Step 1: Conduct a food defense assessment

• This helps you to understand the potential internal and external threats which may cause food contamination. The participants assess their level of security, locking and storage systems, access to the fish, employee and friends' attitudes, chemicals and hazardous substances, market security, personal hygiene and others.

Step 2: Developing a mitigation plan.

• After you have identified the aspects that may cause deliberate food contamination, you identify the preventive actions or measures that can be taken to prevent/minimize intentional contamination.

Step 3: Costing the plan

• After developing the mitigation plan, the participants will go ahead and estimate the costs required to implement the different actions suggested to deter food contamination.

Step 4: Review the Mitigations

• Periodically review your plan on whether the mitigations are working or not and revise it where necessary.

You can use the table below;

Potential sources of	Possible mitigations	The estimated cost	Periodic reviews
contamination	to the sources of	of implementing the	(Weekly, monthly,
	contamination	mitigations	quarterly, bi-
			annual, or annual)

Deliberate chemical	Establish secure	400,000	Monthly
poisoning of fish in	storage facilities with		
storage	locks		



The process can be done at the individual and group levels.

7.5 Fish safety and quality

7.5.1 What are potential unintentional causes of fish adulteration/contamination?

Question; what are the Potential unintentional causes of fish adulteration/contamination? Answer; These may include;

Biological	Physical		
➤ Bacteria, viruses and parasites (Small	➤ Accidents during transportation		
organisms that cannot be seen by naked eyes	≻Dust		
but can cause fish spoilage hence affect the	≽Fumes		
quality of the fish)	➤ Temperature		
Enzymes; are chemicals found in fish (The	➤ Rainfall		
activity can be increased or reduced due to			
temperature and other changes)			

7.5.2 How do we traditionally identify the quality of fish?

Question; How do we traditionally identify the quality of fish?

Answer; The quality of fish can be established mainly through sensory assessments. These may include; seeing, touching, smelling and tasting.

The table below shows some of the qualities of a good fish;

Quality evaluation of fresh fish using sensory evaluation

Clas	Gills	Eyes	Body	Texture	Quality
5	 Dark red color 	 Bright, metallic 	 Natural color 	• Firm	• Excellent
	 Some thin clear 	Clear pupils	 Iridescent 	before or in	
	slime	Convex eyes	• Firm scales	rigor	
4	 Red color 	Bright metallic	 Natural colors 	• Firm	• Good
	• Some slime, but still thin and	• Slightly cloudy	Firm scalesSome slime		
	Suii uiiii aiiu	• pupils	• Some sinne		
3	• Red-brown color	• Dull	• Slight red	• Firm	• Average
	• Some thick slime	• Pupils cloudy	color		
2	Brown color	• Dull	• Red/yellow	• Soft	• Poor
	• A lot of slimes	Pupils cloudy	color		
	• Slight off smell	Slightly	 Scales missing 		
1	Brown color	• Dull	• Red/yellow	Very soft	• Very poor
	• A lot of slimes	Pupils cloudy	color	Mark of	
	• Bad/ammonia	 Concave eyes 	• Few scales	finger left	