

TMO-1



FISHERIES TRAINING CENTRE

Pole & Line Fishing

REPUBLIC OF KIRIBATI



Control Number

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Introduction

This Course Outline is designed to reflect the notes written and compiled based on the experience of *Yoshinori Kouri san*, former President of the Federation of Associations of fishing Master and Radio Masters of Japan Pelagic Pole and Line skipjack Fishery. His materials have been used for years and found effective in delivering the knowledge and skills required for graduates to serve as deckhand fishermen on Pole & Line fishing vessels.

Instructors are expected to follow this guide bearing in mind that their knowledge, skills and dedications are the key components in the transfer of knowledge and skills to those being trained.

Bauro Uerem
Fisheries Training Centre

Part A

Course Framework

▪ Scope

This course covers the training requirements of ship owners and ship operators of Pole & Line fishing vessels. Junior stage covers most of the theoretical lessons introducing Pole & Line Fishing techniques while the Senior Stage concentrate more on the practical aspects.

▪ Objective

A trainee successfully completing this course will be able to work onboard a Pole & Line Fishing vessel. Depending on Fishing Company's and vessel's policy the fresh crew may only assist but should he be given a chance to hold the Pole, the newly graduated trainee should be able to perform the job efficiently.

▪ Entry standards

The course is open to prospective seafarers and should preferably be given prior to their employment on a sea-going fishing vessel. Class Nine or Form Three Junior Secondary level is the minimum requirements and all candidates must be certified by a doctor to be in a good health and possess a Clean Police Clearance record. Elements of entry standard are detailed in the Quality Manual and Intake Procedure.

▪ Course certificate

Provided that the course has been approved by the Administration, a trainee who successfully completes it may be issued with a certificate attesting that he has completed a course based on standards set in the Course Curriculum. This certificate must be signed by the Principal and the Secretary for Ministry of Labour & Human Resource Development, the governing body of the institute.

- **Course intake limitations**

The number of trainees is demand driven depending on employer's demands. Trainees are to be sorted in classes with not more than twenty five trainees in a class. The class may also be split into groups of not more than five trainees for group search, studies and projects.

- **Staff**

The Fishing Department is headed by the Senior Instructor (Fishing) holding a minimum of Master Class V ticket with sufficient sea service experience as stated in the Organization Structure and Staff Personal Details (*QM Part A 3.1 Organization Structure*). Assistant instructor with practical knowledge of Pole & Line Fishing is to assist the Senior Instructor.

- **Teaching facilities and equipments**

Classroom facilities and audio/video projector are available for the theoretical part of the course. Video room is available at all times for audiovisual materials.

For the practical part of the course the following resources are of adequate quantity to train more than the whole course participants and are made available at all times:

- ❖ *Model Section of Fishing Vessels deck.*
- ❖ *Fishing Poles*
- ❖ *Monofilaments*
- ❖ Fishing Hooks of assorted sizes
- ❖ Raincoats
- ❖ Safety Helmets
- ❖ Rubber Boots
- ❖ Safety Belts

- ❖ Threads
- ❖ Scooping Nets of different sizes
- ❖ Buckets
- ❖ Feathers
- ❖ Long Handled Fishing Hooks
- ❖ Cat Skin (Eba)
- ❖ Cutting pliers
- ❖ Flat Pliers
- ❖ Gloves
- ❖ Fish replicas of different sizes and weights
- ❖ Baskets
- ❖ Lure Hooks
- ❖ Swivels
- ❖ Clips
- ❖ Wooden Hammer

- **Teaching aids (A)**

Instructor's Manual (Part D of the course) and Trainees Text Books.

- Model Section of Fishing Vessel.
 - This is made out of steel plating that the trainees use for practical fishing exercises.



- Fishermen's Outfits
- Fishing Poles with Lines and Hooks
- Assorted sizes of Fish replicas



Audiovisual aids

The following are available:

- Pole & Line Enyou Gyogyou
- Pole & Line Makurazaki no enyou ipponnzuri

▪ **Textbooks (T)**

A copy of Pole & Line Text Book is available for every trainee to keep throughout the course period.

Part B

Course Outline

Subject Area		Hours	
		Lecture	Demonstrations
1	Section Introduction	1	
1.1	Fishing Operation	1	1
1.2	General Information of duties on a Pelagic Pole & Line skipjack boat		
	.1 Assignments of duty and work.	1	1
	.2 Number of crew.	1	1
1.3	Outline of Work during voyage		
	.1 Preparatory works (shikomi) before sailing	1	1
	.2 Loading of live bait	1	1
	.3 Work during the outgoing voyage	1	1
	.4 During operation (fishing)	1	1
	.5 Return voyages	1	1
	.6 Landing fish and loading goods after docking.	1	1
1.4	General Rules for Pole & Line Skipjack Fishing Boat	1	1
1.5	Behaviour and Ecology of Skipjacks		
	.1 Species of skipjack	1	1

	.2 Behaviors of skipjack	2	1
	.3 Schools of skipjack	2	1
	.4 Kind of and behavior of birds	2	1
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1.6	Behaviour of Bait Sardines		
	.1 Species of sardines	2	1
	.2 Characteristics of sardines and how to handle them	2	1
	.3 Learning feeding method	1	1
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1.7	Fishing Gear		
	.1 Lure hook	1	8
	. Fishing Pole	1	8
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1.8	Fishing Work		
	.1 Fishing methods of pelagic skipjack	1	8
	.2 Safety Precautions	1	8
	.3 Cautions in handling skipjack	2	8
	.4 Preventive measures for falling into the sea	2	1
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1.9	Use of Skipjack in Japan		
	.1 Market fish	1	1
	.2 Canned and dried products	1	1
	.3 Relationships between supply and the use of skipjack	1	1
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1.10	Review and Final Assessment	3	
	SUBTOTALS	37	61
	TOTAL		<u>98</u>

Pole & Line Fishing Course Timetable

Duration of the training is Twelve Months of which twenty weeks covers the Junior Stage and nineteen weeks for Senior Stage. Time Tables covering all aspect of FTC modules, including practical onboard trainings, are incorporated in the Time Table to cover all sections of different modules throughout the thirty nine weeks of the Course.

Part C Detailed Teaching Syllabus

The detailed teaching syllabus has been written in learning objective format in which the objective describes what the trainee must do to demonstrate that knowledge has been transferred.

The following demonstrations illustrates that trainees absorbed what has been taught.

- Practical Pole & Line Fishing
- Fishing Pole Preparation
- Lure Making
- Lure Repairs
- Fishing Knots
- Live Bait Handling
- Tuna Fish Transfer

Throughout the course, safe working practices are clearly defined and emphasized.

	Learning Objectives	IMO Reference	Textbooks Bibliography	Teaching Aid
1	Section Introduction <i>Pole & Line Fishing to be introduced to trainees. At the end of the first session, trainees are to have a basic understanding of the type of</i>		Page 1 OFCF Pole and Line	Flash cards, video CDs Text Books

1.1	<p><i>fishing techniques to be covered.</i></p> <p>Fishing operation <i>Trainees to have general understanding of the most fished operating areas. This implies that there are specific areas for fishing (fishing grounds) and trainees should identify those areas.</i></p>	<p>FAO/ILO/IMO Training and Certification of Fishing Vessel Personnel Chapter 4 pg 42 Chapter 6 Pg 85, pg84</p>	<p>Skipjack fishing (1998) Page 4 OFCF Pole and Line Skipjack fishing (1998)</p>	<p>Flash cards, video CDs Text Books Text books, video CD'S</p>
1.2	<p>General Information of duties on a Pelagic Pole & Line skipjack boat</p> <ul style="list-style-type: none"> The learning outcome is that for trainees to fully understand the daily routine and extent of work on Pole & Line vessels with crew complement. 		<p>Pages 4 – 6 OFCF Pole and Line Skipjack fishing (1998)</p>	<p>Flash cards, video CDs Text Books Flash cards, video CDs Text Books</p>
1.3	<p>Out line of work during one voyage</p> <ul style="list-style-type: none"> This topic elaborates further the duties on Pole & Line vessels in details from the beginning of the voyage preparation to landing of the catch at the end of the voyage. Trainees are to appreciate and understand what is expected of them throughout the voyage. 	<p>FAO/ILO/IMO Training and Certification of Fishing Vessel Personnel Chapter 4 pg 42 Chapter 6 Pg 85, pg84</p>	<p>Skipjack fishing (1998) Pages 6 – 9 OFCF Pole and Line Skipjack fishing (1998)</p>	<p>Text books, video CD'S Flash cards, video CDs Text Books</p>
1.4	<p>General rules for pole and line skipjack fishing boat. The expected learning outcome is that the trainee should have a sound knowledge on the following topics:</p> <ul style="list-style-type: none"> Behavior and Ecology of Skipjacks Species of skipjack Behaviors of skipjack Schools of skipjack Kind of and behavior of birds 		<p>Pages 9 – 10 OFCF Pole and Line Skipjack fishing (1998)</p>	<p>Flash cards, video CDs Text Books Flash cards, video CDs Text Books Text books, video CD'S Flash cards,</p>

1.5	Trainees are to have adequate background information on behavior and the ecology of skipjacks. A very good fisherman must understand his fish, how and where to find them.		Pages 10 - 21 OFCF Pole and Line Skipjack fishing (1998)	video CDs Text Books Flash cards, video CDs Text Books
1.6	Types of bait (sardines) Trainees should identify different species of bait sardines and be able to handle and look after the delicate live bait fish.	FAO/ILO/IMO Training and Certification of fishing Vessels Personnel Appendix34	Pages 22 – 29 OFCF Pole and Line Skipjack fishing (1998)	Text books, video CD'S
1.7	Fishing Gear preparation is every fisherman's expertise. Trainees must be able to prepare and maintain their own Fishing Poles to safety standards and fishing lures.	FAO/ILO/IMO Chapter5 5.2.12.12	Pages 30 – 34 OFCF Pole and Line Skipjack fishing (1998)	Flash cards, video CDs Text Books Flash cards, video CDs Text Books
1.8	Fishing Work: Fishing techniques and safety precautions must be observed at all times and every trainee must be aware of this very important aspect and the risks.	FAO/ILO/IMO Chapter6 6.24.1 Pg 84	Pages 35 – 41 OFCF Pole and Line Skipjack fishing (1998)	Text books, video CD'S Flash cards, video CDs Text Books
1.9	Use of skipjack in Japan This concluding topic highlights the importance of fresh fish quality and the use of tuna in the market.		Pages 41 – 42	Flash cards, video CDs Text Books
	Appendices		Pages 43-46	Text books, video CD'S

Part D

Instructor Manual

▪ Introduction

The instructor manual provides guidance on the material that is to be presented during the course. The course material reflects the requirements for the training of ratings before engaged on sea board services, particularly on fishing vessels. For every topic, instructors should highlight key points to trainees to ensure that they are well understood and absorbed.

The material has been arranged under nine main headings:

- 3.1 Fishing operation
- 3.2 General information of duties on pole and line skipjack fishing boat
- 3.3 Out line of work during one voyage
- 3.4 General rules for pole and line skipjack fishing boat.
- 3.5 Behavior and Ecology of Skipjacks
- 3.6 Bait Fish "Sardines"
- 3.7 Fishing Gear
- 3.8 Fishing Work
- 3.9 Use of skipjack in Japan

Appendices

Table 1 Crew Structure & Roles

Table 2 Description of works during fishing.

Table 3 Daily working schedules.

Table 4 Tuna fishing boat parts.

Part E

Evaluation

▪ Introduction

The effectiveness of any evaluation depends upon the accuracy of the description of what is to be measured.

The learning objectives used in the detailed syllabus will provide a sound base for the construction of suitable tests for evaluating trainee's progress.

▪ Method of evaluation

Having a defined objective as detailed in Learning Objectives the following Evaluation methods are to be conducted:

- Unit Tests &
- End of Stage Exams
- Course End Results

Unit Tests

At the end of every topic, trainees are to be given a written and/or practical test to ascertain how much the trainees had absorbed. Trainees failing the unit test are to be given extra study hours under close guidance of the topic instructor in accordance with FTC Rules for trainees and the Quality Management System. Re-testing of these trainees will be conducted after a considerable time of extra study hours given and the instructors satisfies that they are ready. A test at the end of the topic is also a self evaluation process of instructors.

End of Stage Exam

Before the end of each stage, Junior & Senior Stage, trainees are to be given two weeks revision in preparation before the Final Exams.

Junior Stage Exam covers all the topics taught from the beginning to the end of the Junior Stage. Exams are in the form of Written and Practical Demonstrations.

Senior Stage Exam comprises with Written, Practical and Orals where required. Trainees could be assessed/evaluated in a group for practical exams.

▪ **Scoring**

Scoring of written Papers are by marks awarded for each question while practical exams are awarded with either a straight Pass or FAIL.

Written Papers comprises with a combination of either of the following:

- Multiple Choice questions.
- Short Answers
- Long Answers
- True or False

Questions, particularly long answer questions are to be weighted to reflect the relative importance of questions, or of sections of an evaluation.