

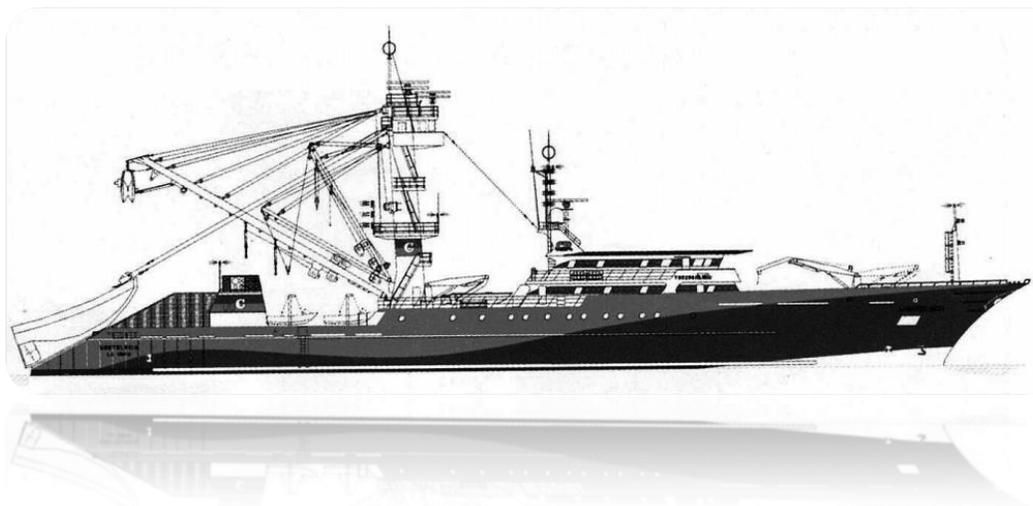
**TMO-2**



FISHERIES TRAINING CENTRE

# PURSE SEINE FISHING COURSE OUTLINE

REPUBLIC OF KIRIBATI



Control Number

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## **Introduction**

This Course Outline has been designed to be a learning resource aid for Trainees who are undertaking a basic introductory course to prepare them for work as a crew member on a purse seiner operating in the Western & Central Pacific tuna purse seine fishery. Trainees undertaking a course based on that curriculum will receive practically focused training at a regional training organization specializing in fisheries and maritime training and the Learner's Guide is to be used as a supplementary resource to that training.

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 Purse Seine fishing vessels. Junior stage covers most of the theoretical lessons introducing Purse Seine 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 Purse Seine 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:

- ❖ *Net(Gill Net)*
- ❖ Spikes
- ❖ *Monofilaments*
- ❖ Needle Net
- ❖ Raincoats
- ❖ Safety Helmets
- ❖ Rubber Boots
- ❖ Shackles

- ❖ Threads
  
- ❖ Scooping Nets of different sizes
  
- ❖ Ropes with assorted sizes
  
- ❖ Floats
  
- ❖ Long Handled Fishing Hooks
  
- ❖ Cutting pliers
  
- ❖ Flat Pliers
  
- ❖ Gloves
  
- ❖ Chains

▪ **Teaching aids (A)**

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

- Fishermen's Outfits
- Assorted sizes of Fish replicas
- Powered Points
- Posters

**Audiovisual aids**

The following are available:

- Purse seine Video Clip
- Purse seine Demo Video

▪ **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  |
| 2            | <b>Section Introduction</b>  | 1   |   |
| <hr/>        |  |   |   |
| 2.1          | <b>Purse Seine Operation</b>   |   |   |
|              | <ul style="list-style-type: none"> <li>• Overview of Purse Seining</li> <li>• Principles of purse seine gear</li> <li>• General operation principles</li> <li>• Setting and hauling procedures</li> <li>• Search for school fish</li> <li>• Gears maintenance</li> </ul> | <p>2</p> <p>2</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> | <p>1</p> <p>1</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> |
| <hr/>        |  |   |   |
| 2.2          | <b>Net Work (theory)</b>   |   |   |
|              | <ul style="list-style-type: none"> <li>• Basic principles</li> <li>• Tools</li> <li>• Parts of netting</li> <li>• Knots used in nets</li> <li>• Knots used in nets</li> </ul>  | <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>          | <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>          |

|       |  |                  |                    |
|-------|--|------------------|--------------------|
|       | • Preparing a net for repair                 | 2                | 2                  |
|       | • Sewing the hole                            | 2                | 2                  |
|       | • Putting in a patch                         | 2                | 2                  |
|       | • Strengthening, joining and hanging netting | 2                | 2                  |
|       | • Net work Practical                         | 8                | 60                 |
| <hr/> |  |                  |                    |
| 2.3   | <b>Review and Final Assessment</b>           | 3                |                    |
|       |  | <b>SUBTOTALS</b> | 32 67              |
|       |  | <b>TOTAL</b>     | <b>120 periods</b> |
| <hr/> |  |                  |                    |

## **Purse Seine 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 Net Mending
- Practical Net Stacking
- Making Net Needle
- Net Patching
- Strengthening, joining and hanging netting
- Sewing the hole

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

|     | <b>Learning Objectives</b>  | <b>IMO Reference</b>   | <b>Textbooks Bibliography</b>                                | <b>Teaching Aid</b>                                      |
|-----|---|--|--|--|
| 2   | <b>Section Introduction</b><br>Purse Seine Fishing to be introduced to trainees. At the end of the first session, trainees are to have a basic understanding of the type of fishing techniques to be covered.                           | STCW-95<br>Chapter 3<br><br>FAO/ILO/IMO<br>Chapter 3.25                                      | SPC Basic Purse<br>Seine Crew<br>Course<br>Page 4            | Notes ,<br>Flash<br>cards,<br>video<br>CDs Text<br>Books |
| 2.1 | Trainees are to be able to understand and recognize the overview and principles of Purse Seining operations<br>- Thoroughly understand all the details of procedures of setting and hauling net with useful terms used onboard          | Code of<br>safety<br>for<br>Fisherman<br>and Fishing<br>Vessels 2005<br>(IMO)                | SPC Basic Purse<br>Seine Crew<br>Course<br>Page 5-19         | Notes ,<br>Flash<br>cards,<br>video<br>CDs Text<br>Books |
| 2.2 | This unit will introduces to the trainees net mending basic principles, tools, parts of netting, knots used in nets, repair, sewing the hole, putting in a patch, and other necessary practical knowledge when working on fishing nets. | Code Of<br>Safety for<br>Fisherman<br>and Fishing<br>Vessels<br>2005<br>Chapter VI<br>(6.11) | SPC Basic Purse<br>Seine Crew<br>Course<br><br>Pages 51 – 63 | Notes ,<br>Flash<br>cards,<br>video<br>CDs Text<br>Books |

# **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:

- 2.1 Introduction
- 2.2 Purse Seine Operation
- 2.3 Net Work

## **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.