

SOUTH PACIFIC COMMISSION

SIXTEENTH REGIONAL TECHNICAL MEETING ON FISHERIES  
(Noumea, New Caledonia, 13-17 August 1984)

QUESTIONNAIRE ON FISHERIES TRAINING

This questionnaire has been prepared co-operatively by the New Zealand Department of Foreign Affairs (NZFAD) and the South Pacific Commission, and constitutes part of a formal evaluation of the region's fisheries training requirements. Completed forms should be returned to the South Pacific Commission.

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## QUESTIONNAIRE ON FISHERIES TRAINING

### Part 1: Relevance of the SPC/Nelson Polytechnic

#### Pacific Fisheries Officer Training Course to national training needs

The SPC/Nelson Polytechnic Pacific Fisheries Officer Course is a multidisciplinary training programme intended to give participants a grounding in a range of basic practical skills. The course is designed for a fisheries extension officer working in an isolated situation with little technical or administrative support, and needing the skills necessary to maintain and repair a variety of equipment, conduct or administer fishing operations and related activities, and provide advice and technical assistance to village fishermen. Successive SPC Regional Technical Meetings on Fisheries have enabled the region's senior fisheries officers to define and improve past courses to ensure that its training objectives are met. This questionnaire is part of an ongoing review process designed to ensure that the training offered remains relevant to the manpower needs and training priorities of individual countries.

Part 1 of the questionnaire is directed towards senior national fisheries administration personnel in SPC member countries and territories, or their delegates responsible for coordination of national fisheries training programmes.

To assist the compiler of the questionnaire, a summary of the 1984 course syllabus is attached.

For the purposes of Part 1 of the questionnaire the term 'Fisheries Officer' is intended to include all government fisheries employees working in technical or manual fields and whose duties normally require some degree of familiarity with one or more of the subject areas listed in the syllabus.

1) Country: \_\_\_\_\_ 2) Date: \_\_\_\_\_

3) Compiler: Name \_\_\_\_\_

Position \_\_\_\_\_

\_\_\_\_\_

4) Approximately how many Fisheries Officers as defined above are there in your country? \_\_\_\_\_

5) The objectives of the SPC/Nelson Polytechnic Pacific Fisheries Officer Course is to provide training in the variety of basic practical skills required by a fisheries extension worker as outlined in the above notes. Is this objective consistent with the Fisheries training requirements and priorities of your country? If not, please give reasons.

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6) How many Fisheries Officers, private fishermen or others from your country have attended the Nelson Course? \_\_\_\_\_



- 9) For your country, would it be appropriate for the Polytechnic to give either more or less attention to training in the areas listed in question 8? Please tick the appropriate boxes.

	More attention should be given to this area	The attention given to this area should remain the same.	Less attention should be given to this area
a) Net repair and construction, reading net plans, ordering netting materials, rope work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Fishing, rigging of fishing gear, supervising fishing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Fishing business practice or economics.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Navigation chartwork, laying courses, conducting short coastal or inter-island passages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Refrigeration engineering, installation, maintenance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Marine diesel or petrol inboard engine installation, maintenance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Outboard engine, maintenance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Metalwork and welding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Fibreglassing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) General duties on a fishing boat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k) On-shore handling processing, storage of fish.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l) Basic research related tasks, sampling, data collection, recording and interpretation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10) Are there other skills which you feel should be incorporated into the course? Please give details \_\_\_\_\_

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11) Do you have any other recommendations for improving the course? \_\_\_\_\_

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12) Over the next three-year period, how many of your Fisheries Officers would you like to see given the opportunity to attend this course? \_\_\_\_\_

13) Do you feel that the course would provide useful training to private fishermen or other non-government personnel in the fisheries sector in your country? \_\_\_\_\_

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14) If you answered 'Yes' to question 13, approximately how many private fishermen or non-government fisheries personnel would you like to see given the opportunity to attend the course over the next three-year period? \_\_\_\_\_

Thank you for your co-operation.

QUESTIONNAIRE ON FISHERIES TRAINING

Part 2: Participants assessment of the SPC/Nelson Polytechnic

Pacific Fisheries Officer Training Course

Part 2 of the questionnaire is addressed to former participants to the above course.

1) Participant's name \_\_\_\_\_

2) Year you attended the course \_\_\_\_\_

3) What is your present position or job? \_\_\_\_\_

\_\_\_\_\_

4) Please briefly describe your duties and work activities: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5) Following are the broad categories of skills taught at Nelson Polytechnic. Please indicate which areas are important in your present work by ticking the appropriate boxes.

	I work in this area very often	I sometimes do work in this area	I very seldom or never do work in this area
a) Net repair and construction, reading net plans, ordering netting materials, rope work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Fishing, rigging of fishing gear, supervising fishing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Fishing business practice or economics.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	I work in this area very often	I sometimes do work in this area	I very seldom or never do work in this area
d) Navigation, chartwork, laying courses, conduc- ting short coastal or inter-island passages.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Refrigeration engin- eering installation, maintenance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Marine diesel or petrol inboard engine installa- tion, maintenance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Outboard engine mainten- ance, repairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Metalwork and welding.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Fibreglassing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) General duties on a fishing boat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k) On-shore handling, processing, storage of fish.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l) Basic research-related tasks, sampling, data collection, recording and analysis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6) Please indicate the usefulness of the training you received during the SPC/  
Nelson Course by ticking the appropriate boxes below.

	Yes	No	I cannot generalise
a) I find some practical tasks easier to perform because of the skills I learned at Nelson.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Since attending the course I have been able to do some practical tasks I could not do before.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Outline of the 1984 SPC/Nelson Polytechnic Pacific Fisheries Officer  
Training Course

- a) Subjects covered in Polytechnic-based lecture and practical work  
(14 weeks)
- i) Practical netting and seamanship  
net repair and construction; reading net plans; ordering netting materials; rope work; splicing wire ropes; use of blocks and compound pulley systems.
  - ii) General fishing subjects  
fish catching methods (trolling, gill netting, longlining, dahnlining, deepwater handlining, purse seining, beach seining, pole-and-line fishing, bait fishing, shellfish dredging); fishing economics; benefits of fishermen's organisations.
  - iii) Navigation and chartwork  
chart reading, abbreviations and symbols; position fixing; laying courses; use of compass (to a standard required for coastal and short inter-island passages by small boat).
  - iv) Refrigeration  
general principles of compression and absorption refrigeration cycles, characteristics of insulating materials; simple fault-finding and repair.
  - v) Fish quality control  
physical and chemical composition of fish; bacterial, enzymic (autolytic) and oxidative spoilage; control of spoilage; on-board fish handling; properties and use of ice; freezing and cold storage of fish; salting, drying and smoking.
  - vi) Engineering workshop practice  
use of basic metalworking tools; drilling, tapping and threading; soldering; work with metal sheets, bars and pipes.
  - vii) Marine engineering  
principles of 2- and 4-stroke compression cycles; principles of petrol and diesel engines; use of measuring tools; care and maintenance of lead-acid batteries; engine inspection and overhaul; maintenance of pumps and filters; lubrication; bilge systems.
  - viii) Outboard motor maintenance  
routine maintenance and testing; propeller selection; emergency treatment following immersion.
  - ix) Fibreglassing  
properties and uses of fibreglass materials and tools; skinning wooden surfaces; construction of small icebox; repair of holes in fibreglass hull; construction of fibreglass boats.
  - x) Welding  
operation and maintenance of gas and electric arc welding plants; welding sheets and pipes; brazing.

- xi) Visiting lecturers/private study  
time is allocated each week for trainees to write up research projects and log-books. Visiting lecturers are engaged to speak on relevant topics during this period when possible.

b) Subjects covered in field attachments (4 weeks)

- i) Fish factory experience (3 weeks)  
trainees work under supervision in small or medium sized fish processing factories and become familiar with various aspects of the processing industry.
- ii) Fisheries research and management (1 week)  
visits to Fisheries Research Division, Fisheries Management Division and Fishing Industry Board in Wellington. Lectures, demonstration and practical work on aspects of fisheries research and management in New Zealand and overseas.

c) Subjects covered in the Practical Fishing Module held in Fiji (4 weeks)

Students received on-the job instruction under the supervision of an SPC Master Fisherman the following fishing and related activities.

- i) Surface trolling
  - ii) Livebait trolling
  - iii) Daytime and nighttime deep reel fishing
  - iv) Vertical floating longline
  - v) Deep bottom-set longlines
  - vi) Verandah net fishing
  - vii) Use of small echo-sounders
  - viii) Construction, deployment and use of FADs
  - ix) Onboard and onshore fishing processing
  - x) Record-keeping and economics of fishing operations.
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