



Food and Agriculture
Organization of the
United Nations



Report on the Training Course on Port-In and Port-Out (PIPO) Officers of Thailand on Specific Detail on Fisheries Management

Summary

As part of the project REBYC-II CTI “Strategies for Trawl Fisheries Bycatch Management” project it was realized that when considering the increasing number of fishing vessels, fisheries management policies and measures, the fisheries managers have major role to play to deal with this issue.

Fishing technologists and fishery officers need to monitor the quantum of application on various fishing technologies both in small scale and large scale sectors in order to take up appropriate management measures. Strengthened knowledge of fishing technology is important for both fishing technologist and fisheries managers to properly develop fisheries management measures or plan.

Two training courses on Port-In and Port-Out (PIPO) Officers of Thailand on specific details on Fisheries Management was organized. The first course was organized during 1-4 November 2016 at Rayong Province which was attended by 19 participants. The second course was organized on 15-18 November 2016 at Songkhla Province which was attended by 25 participants. All the participants and observers in both training course were from Department of Fisheries, Thailand. The 4 days training was aimed at providing an introduction to the fishery situation in Thailand, provide knowledge on classification of fishing gear and the accessories, fishing gear construction and its operation. This was found useful for all trainees who can apply it in their further work. This was confirmed in the feedback by the trainees

1. BACKGROUND

Modern marine fisheries have played an important role to support marine fisheries production in Thailand. Prior to 1960 Thai fisheries was dominant with small scale fisheries with fishing gears such as gillnet and various stationary fishing gears e.g. traps, hooks, etc. Since 1950s, Purse seine has been introduced and operated in Thailand by Chinese fishers, followed by promotion of commercial trawl fisheries after the decade of 1960 in Philippines Thailand. The purpose of commercial fisheries promotion was to supply as a source of marine fisheries products, an important source of protein to their rapidly increasing population, as well as development of the export of marine fisheries products. Successful promotion of purse seine and bottom trawl fisheries was widely

spread throughout region causing a gloomy status of fishing in Thailand and Southeast Asia Region since the decade of 1970.

Overview of marine fisheries production by commercial fisheries, shows reduction or depletion of marine resources over the years. The depletion of demersal resources has been directly related with the increase of fishing capacity, i.e. increase in number of fishing vessels and development of fishing technology both of fishing vessels and fishing gears including gear material improvement. Considering the increasing number of fishing vessels, fisheries management policies and measures, governed by fisheries managers have major role to play to deal with this issue. Fishing technologists and fishery officers need to monitor the quantum of application on of various fishing technologies both in small scale and large scale sectors in order to take up appropriate management measures. Strengthened knowledge of fishing technology is important for both fishing technologist and fisheries managers to properly develop fisheries management measures or plan.

Training Course of Fundamental Fishing Technology comprises of essential fishing subjects *i.e.* Introduction of marine fishery of Thailand, classification and fishing gear and accessory material, fishing gear design, etc. Trainees will gain the experience on fishing gear construction, fishing operation and fishing gear survey, which aims to enhance the best comprehension on various fishing gears and practices.

The four days training course is provided to less experienced fishing technologists, fisheries officers and fisheries managers. Nevertheless it also benefits those who have already got experience but wish to learn more and improve their understanding.

Two training courses were organised. The first training course was conducted at Eastern Marine Fisheries Research and Development Center (EMDEC), Rayong Province. The second training course was conducted at the National Institute of Coastal Aquaculture (NICA), Songkla Province.

2. OBJECTIVES

1. Provide a thorough grounding in fishing technologies to benefit the less experienced, junior fishing technologists, fisheries extension officers and fishing operators.
2. Guide trainees through the entire process of fishing technology, *i.e.* status of marine fishery of Thailand, classification of fishing gear, fishing gear design and construction, fishing operation.
3. Introduce the Principles of Ecosystem Approach to Fisheries Management (EAFM).

3. EXPECTED OUTPUTS

1. Awareness in
 - 1.1 Status of marine fishery of Thailand
2. Knowledge in

- 2.1 Fishing gear material
- 2.2 Classification of fishing gear
- 2.3 Fundamental fishing gear construction and design
- 2.4 Fishing operations
- 2.5 Principles of Ecosystem Approach to Fisheries Management (EAFM)

3. Skill and experience

- 3.1 Fishing gear Identification

4. PROCESS

This training course was held for 4 days in total, which comprised of three days lecture and half day study trip to the Ban Phe fishing port and private company fishing ports at Rayong Province (1st training course) and to the municipality fishing port of Songkhla Province (2nd training course).

1. Course Structure

This training course dealt with 5 main topics *i.e.*

- i. Status of marine fishery of Thailand
- ii. Fishing gear material
- iii. Fishing gear classification
- iv. Basic fishing gear construction & design and fishing operations
- v. Principle of Ecosystem Approach to Fisheries Management (EAFM)

2. Training Methodology

This course is designed for providing the knowledge of existing fishing gears to participants through PowerPoint Presentations together with the discussions between lectures. This allowed the participants interact with resource persons and between participants on the existing situations and their own field experiences.

3. Learning and Feedback

To assess the understanding of participants, short sessions of questions and discussions were held during the lecturer period. On the subsequent day morning, the representatives of participants will be chosen to conclude the detail of the previous day's lecture. The resource persons will check and fulfill the missing topics during the training course. In addition, the pre and post-test were also conducted to measure the success of the course during the first and last day in this training.

4. Training Materials

The training material includes reference texts, demonstration material on fishing net and accessories e.g. float, sinker, were all used to make participants understand the fishing gear construction clearly. Main references and texts such as “Definition and classification of fishing gear in Thailand (1997) published by Department of Fisheries Thailand, Fishing gear in Southeast Asia (1982) published by SEAFDEC, and Classification of Fishing Gear (2016) written by SEAFDEC fishing gear technologists were used. The lectures were also supported by pictures, photographs and video of current existing fishing gears operation.

5. Certificate

At the end of training course, all participants received the certificate of attending and completing both training courses which was given by Mr. Tanut Srikum, Division head of Fisheries Resources Assessment, EMDEC He also kindly delivered the closing remarks of the training course. The course materials including stationery, all presentations, documents and pictures used during the training course were also provided to the participants.

5. DATE AND VENUE

Course Date:	The 1 st training course on 1 – 4 November 2016 The 2 nd training course on 15 – 18 November 2016
Course Venue:	The 1 st training course at Eastern Marine Fisheries Research And Development Center (EMDEC), Rayong Province The 2 nd training course at National Institute of Coastal Aquaculture (NICA), Songkhla Province
Organizers:	REBYC-II CTI Thailand in collaboration with Regional Facilitation Unit of Project REBYC-II CTI and SEAFDEC/TD

6. PARTICIPANT AND TRAINING PERSONEL

There were 54 participants which included junior fisheries officers in field of fishing gear technology, fisheries extension, or provincial fisheries officers, resource persons from DOF Thailand and SEAFDEC staff, i.e.

- i. Nineteen (19) Trainees for the 1st training course at Rayong
- ii. Twenty five (25) Trainees for the 2nd training course at Songkhla Province
- iii. Two (2) Observers from Southern Marine Fisheries Research and Development Center (SMDEC), Songkla
- iv. Eight (8) Trainers, Two (2) from DOF Thailand and Six(6) from SEAFDEC/TD



Trainees, Observers and Trainers of The 1st training course on 1 – 4 November 2016



Trainees, Observers and Trainers of The 2nd training course on 15 – 18 November 2016

7. LIST OF TRAINEES, OBSERVERS AND TRAINERS OF TRAINING COURSES

The 1st training course

Trainees		
Province	Name	Remarks
Phetchaburi	Ms. PanidaPoohoi	
	Ms. NatchaHengcharoen	
Samut Sakhon	Mr. JennarongWannaubol	
	Mr. PiroteNaimee	
Samut Songkhram	Mr. AtichatTipayanan	
	Mr. DuronglitKhiawkaew	
	Mr. KheteSornchan	
Samut Prakarn	Ms. SiripornSrisudjai	
	Ms. OrrasaPisanpan	
Chachoengsao	Ms. ChonladaMeeanan	
	Mr. AmornthepChotchuang	
Chon Buri	Mr. SivapongGerdthungyang	
	Ms. JutharatSirisombat	
Rayong	Ms. JitrapohnBumruroy	
	Mr. ThodsaphonSanguansri	
Chantaburi	Mr. BoonthinanSuntaradom	
	Mr. KunasombatSirisombat	
Trat	Ms. KetpaitoonKaewpaitoon	
	Ms. NontraratRatpanunkul	

2nd training course

Trainees		
Province	Name	Remarks
PrachuabKhiri Khan	Mr. NathawutPanyaem	

	Ms. NarisaNusorn
Chumphon	Mr. RawiPhawangkarat
	Ms. PantipKumlungkua
Ranong	Mr. Kittiharb-ha
	Mr. SomchitKrodkaew
Phangnga	Ms. PaungpornPrabset
	Ms. JutamasNitpran
Phuket	Mr. NopKarabut
	Ms. OnrumpaRachama
Krabi	Mrs. PiyaromKhongkhuem
	Mrs. ChirapornRattanaprom
Satun	Ms. NittayaKatekaew
Trang	Mr. PhairotKongsuwankiri
	Mrs. PunneeDetpukdee
Surat Thani	Ms. TippapornJongjindacharoen
	Mr. PrapasKhaonuna
Nakhon Sri Thammarat	Ms. BenyaphaChanapai
	Ms. PornthipBualuang
Songkhla	Mr. TeerapongApaipakdee
	Ms. Vinita Maneechot
Pattani	Mr. ChakkritNopparat
	Mr. ChavapotNaknoo
Narathiwat	Mr. GrisornPerngyai
	Mr. PrapatpongTaksinsumphaun

Observers

SMDEC, Songkhla	Mr. Totsapon Yimhin
	Ms. Thidarat Khongchai

Resource person and Instructor

Department of Fisheries, Thailand	Mr. Pirochana Saikliang	Senior Advisor DOF Thailand
Department of Fisheries, Thailand	Mr. Tanut Srikum	EMDEC
SEAFDEC	Mr. Isara Chanrachakij	TD
SEAFDEC	Mr. Sayan Promjinda	TD
SEAFDEC	Ms. Nakaret Yasook	TD
SEAFDEC	Mr. Santiphong Putsa	TD
SEAFDEC	Mr. Krit Phusirimongkol	TD
SEAFDEC	Ms. Rada Rowdma	TD

8. TRAINING SCHEDULE

Date	Time	Activities	Remark
Day 1	08.30-09.00	Registration	
	09.00-09.30	Opening ceremony	
	09.30-10.15	Course orientation (course introduction, bus stop for background of participant and years of experience, pre-test)	
	10.15-10.30	Coffee break	
	10.30-12.00	Marine fisheries in general (status of marine fishery in Thailand)	
	12.00-13.00	Lunch	
	13.00-15.00	Marine fisheries in general (status of marine fishery in Thailand)Cont.	
	15.00-15.15	Coffee break	
	15.15-16.30	Fishing gear classification	
Day 2	08.45-09.00	Wrap up (by participants)	
	09.00-10.30	Material of fishing gear and accessories	
	10.30-10.45	Coffee break	
	10.45-12.00	Basic fishing gear construction, design and fishing operation (1) (Surrounding Nets, Gillnets, Trawl Nets, and Seine	

		Nets)	
	12.00-13.00	Lunch	
	13.00-14.00	Basic fishing gear construction, design and fishing operation (1) (Surrounding Nets, Gillnets, Trawl Nets, and Seine Nets)Cont.	
	14.00-14.15	Coffee break	
	14.15-16.30	Basic fishing gear construction and design (2) (Cast nets, Lift nets, and Push nets)	
Day 3	08.45-09.00	Wrap up (by participants)	
	09.00-12.00	Basic fishing gear construction and design (3) (Dredges, Fyke Nets, Hooks and Lines Bamboo Stake Traps and Miscellaneous)	
	12.00-13.00	Lunch	
	13.00-16.30	Additional Knowledge on Ecosystem Approach to Fisheries Management (EAFM)	
Day 4	09.00-12.00	Excursion fishing port	
	12.00-13.00	Lunch	
	13.30-15.00	Course evaluation (Post-test)	
	15.00-15.15	Coffee break	
	15.15-16.00	Closing ceremony	

9. TRAINING SUMMARY

Two training courses on Port-In and Port-Out (PIPO) Officers of Thailand on Specific Detail on Fisheries Management was organized. The first course was organized during 1-4 November 2016 at Rayong Province which was attended by 19 participants, 9 females and 10 males. The second course was organized on 15-18 November 2016 at Songkhla Province which was attended by 25 participants, 13 females and 12 males together with 2 observers from SMDEC. All the participants and observers in both training course were from Department of Fisheries, Thailand. The 4 days training was aimed at providing an introduction to the fishery situation in Thailand, provide knowledge on classification of fishing gear, the accessories, fishing gear construction and its operation . This will be useful for all trainees who can be apply it in their further work.

This trainings were mainly conducted by conventional method of lecture with PowerPoint presentation together with pictures, photographs and video of currently existing fishing gears operation. The instructors ask questions to check their understanding

in each subject. After finishing each day, all lectures of the day were summarized and discussed followed by indication for the next day activities. The suggestion and comments from participants were taken into consideration.

The first day of training course was about the course orientation by Mr. Krit Phusirimongkol (SEAFDEC/TD) and the basic knowledge about the general and current status of marine fisheries in Thailand responsible by .Pirochana Saikliang (Senior Advisor DOF Thailand). This was followed by fishing gear identification by Mr. Santiphong Putsa (SEAFDEC/TD). The second day started with material of fishing gear and accessories, basic fishing gear construction and design, and also their fishing operation which was handled by Mr. Nakaret Yasook, Mr. Sayan Promjinda and Mr. Santiphong Putsa (SEAFDEC/TD). On the third day the basic fishing gear construction, design and fishing operation continued before the additional knowledge on Ecosystem Approach to Fisheries Management (EAFM) by Mr. Krit Phusirimongkol (SEAFDEC/TD) was provided. In the last day, all participants visited the fishing port which was useful for them to understand the fishing gear classification and fishing operation methods. The visit was also to share and exchange knowledge together with participants and instructors on fishing operation and fisheries management policy. On the last day afternoon, the participants received the certificate which was given by Mr . Tanut Srikum, Division head of Fisheries Resources Assessment of EMDEC and who also kindly delivered the closing remark of this training course.

9. LESSONS LEARNED FROM THE TRAINING COURSE

1. Delivery

This training course duration (4 days) was in total which most of participant commented that the time period was satisfactory (71% and 58% in Rayong and Songkhla Province respectively). The pre and post-test were provided in the first and last day of training course for measuring the participant's basic skill and knowledge about fishing gear technology before and after undergoing the training course. The result from pre-test compared with post-test showed that the participants have improved their skills and knowledge by increasing the post test score . The mean score and standard deviation from pre and post-test were 6.05 ± 1.31 and 7.47 ± 1.33 in Rayong Province and 4.93 ± 1.47 and 8.88 ± 0.95 in Songkhla Province, which is shown in Figure 1 .

2. Contents

The contents in this training course are related to the basic fishing gear classification and their operation. To make it easy to understand, PowerPoint presentation was combined with the pictures of fishing gear and video clips of its operation. The participants assessment showed that the content was in tune with the objective and satisfied participants regarding content were 59% and 65% from Rayong and Songkhla Province respectively. There were some participants interested in the fishery management and EAFM concept, for which they would like to attend in EAFM training course. As regard to the last day the field trip, 41% participants in Rayong and 70% for Songkhla were satisfied. From both these training courses the participants gained a lot of knowledge and experience that can be applied to their further work.

3. Materials

As the training was more of lectures with PowerPoint presentation, for more understanding the participants suggest that the presentations should be distributed as handouts for their more easy understanding and if possible the samples of some fishing gear should be shown during the lecture.

4. Logistics

For the first training course the instructor team and all participants stayed at the dormitory of EMDEC, Rayong Province. For the second training course that was organized at NICA, Songkhla Province. There was not enough room space at the dormitory of NICA. So the trainers and some participants needed to find accommodation outside the dormitory, at the Green World Palace Hotel. The dormitory in both cases were not comfortable for participants, so the course evaluation indicate that the participants preferred to stay in the Hotel. For the excursion to fishing port that was held in last day, SEAFDEC/TD had provided van and bus for transportation.

10. ANNEX

Annex I.

The summary of charts delivery about the result of pre and post-test score comparison

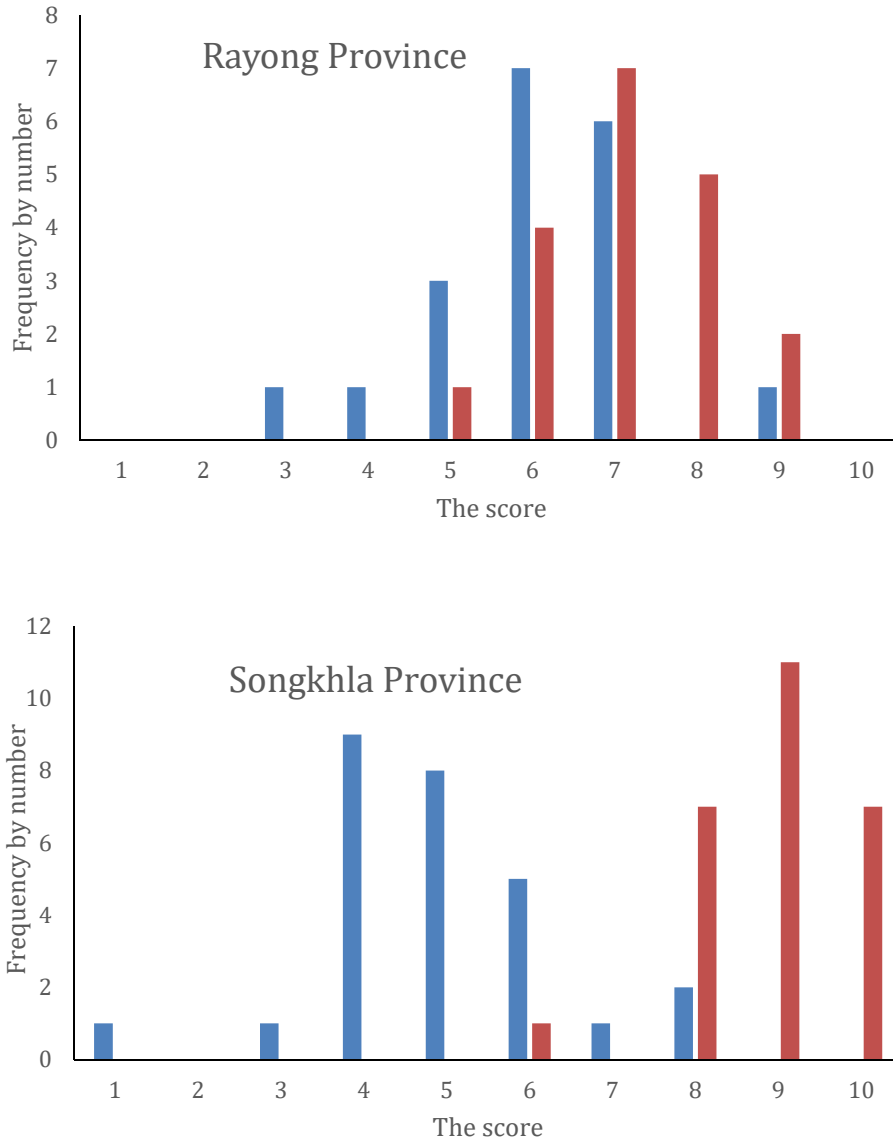


Figure 1: show the score between pretest (■) and post test (■) at Rayong and Songkhla Province

Annex II.

Photo of the activities during both training courses in Rayong and Songkhla Province.



Picture: The activities during the training course at Rayong Province



Picture: The activities during the training course at Songkhla Province

Annex III.

Summary of the evaluation on Training for Port-In and Port-Out (PIPO) of Thailand On Specific Detail of Fisheries Management

1-4 November 2016

SEAFDEC completed the Satisfaction Survey, and the results in this report are calculated for total 17 participants. There are 47% male and 53% female and the average age is 33 years.

Evaluation Highlights

Instructor

1. Clear explanation, 29% of participants rated extremely satisfied
2. Clear explanation, 71% of participants rated satisfied
3. Good communication, 47% of participants rated satisfied
4. Question and answer, 47% of participants rated satisfied

Facility for EMDEC

1. Accommodation and meeting room, 65% of participants rated satisfied
2. Material, 65% of participants rated satisfied
3. Food and coffee break, 53% of participants rated satisfied

Training process

1. Content relate with the objective, 59% of participants rated satisfied
2. Field trip, 41% of participants rated satisfied
3. Training period, 71% of participants rated satisfied
4. Can be apply to their job, 59% of participants rated satisfied

Topic	How likely would you be to recommend to the training course				
	Extremely Satisfied	Satisfied	Neutral	Unsatisfied	Extremely Unsatisfied
Instructor					
1. Clearly explanation	29%	71%	-	-	-
2. Good communication	41%	47%	12%	-	-
3. Question and answer	29%	47%	18%	6%	-
Facility for EMDEC					
4. Accommodation and meeting room	18%	65%	18%	-	-
5. Material	29%	65%	6%	-	-
6. Food and coffee break	35%	53%	12%	-	-
Training process					
7. Content relate with the objective	35%	59%	6%	-	-
8. Field trip	24%	41%	35%	-	-
9. Training period	24%	71%	6%	-	-
10. Can be apply to their job	35%	59%	6%	-	-

Overall satisfaction with the training course

There are 94% of the participants who feeling that this training course achieve their expectation and only 6% felt that their expectations were not met because they need to learn more on the material and fishing vessel.

Suggestion and comment on the content

The participants suggest that this training course should have the content or the activity namely;

- Fishery management
- Practical sessions on the fishing vessel
- Practical sessions on the fishing gear material
- Law and regulation for the PIPO officers
- The sample of the fishing gear should be shown during the lecture

Suggestion and comment on the training course

- Appreciated the Ice Breaking activities
- The organizer should conduct more training course in each area
- The participants prefer to stay in the hotel more than the dormitory
- Should distribute the paper during the presentation
- Some of participants wanted to join the EAFM training course
- The participants gained a lot of knowledge and experience that can apply to their job

Annex IV.

Summary of the evaluation on Training for Port-In and Port-Out (PIPO) of Thailand On Specific Detail of Fisheries Management

15-18 November 2016

SEAFDEC completed the Satisfaction Survey, and the results in this report are calculated for total 26 participants. 46% of participants were male and 54% female and the average age was 38 years old.

Evaluation Highlights

Instructor

1. Clear explanation, 42% of participants rated extremely satisfied
2. Clear explanation, 58% of participants rated satisfied
3. Good communication, 46% of participants rated extremely satisfied
4. Good communication, 54% of participants rated satisfied
5. Question and answer, 58% of participants rated extremely satisfied
6. Question and answer, 38% of participants rated satisfied and
7. Question and answer, 4% of participants rated Neutral Facility for EMDEC

Accommodation and meeting room, 54% of participants rated satisfied

Material, 65% of participants rated satisfied

Food and coffee break, 69% of participants rated neutral

Training process

1. Content relate with the objective, 65% of participants rated satisfied
2. Field trip, 70% of participants rated satisfied
3. Training period, 58% of participants rated satisfied
4. Can be apply to their job, 54% of participants rated satisfied

Topic	How likely would you be to recommend to the training courses				
	Extremely Satisfied	Satisfied	Neutral	Unsatisfied	Extremely Unsatisfied
Instructor					
1. Clearly explanation	42%	58%	-	-	-
2. Good communication	46%	54%	-	-	-
3. Question and answer	58%	38%	4%	-	-
Facility for EMDEC					
4. Accommodation and meeting room	8%	54%	38%	-	-
5. Material	15%	65%	20%	-	-
6. Food and coffee break	4%	23%	69%	4%	-
Training process					
7. Content relate with the objective	35%	65%	-	-	-
8. Field trip	15%	70%	15%	-	-
9. Training period	35%	58%	7%	-	-
10. Can be apply to their job	46%	54%	-	-	-

1. Overall satisfaction with the training course

100% of the participants felt that this training course met their expectation and the learning can be applied in their job.

2. Suggestion and comment on the content

The participants suggest that this training course should have the content or the activity namely;

- i. Field trip survey at fishing port
- ii. More details on EAFM
- iii. Practical sessions on the fishing vessel
- iv. How to identify fish from fishing vessel?
- v. What PIPO officers should do at the fishing port?
- vi. Interview with the fisherman

3. Suggestion and comment on the training course

- i. Should distribute the document during the presentation
- ii. Training should be conducted in the close area, to make the relationship among the participants

- iii. The accommodation should have more facility
- iv. The training period should be extended
- v. Should have more detailed and extended period on the fish identification session
- vi. Should identify the DOF role that relate with the PIPO's office role
- vii. Should conduct this training course twice a year