

第三国研修管理調査団報告書

—シンガポール，空難救助コース—

昭和61年11月

国際協力事業団
研修事業部

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序 文

1985年7月、アセアン拡大外相会議で採択されたアセアン・太平洋人造り協力緊急行動計画 (APC-HRD) に基づいてシンガポールを実施国とする空難救助第三国研修が昭和61年7月28日～8月29日迄、5週間シンガポール国民間航空訓練センター (Civil Aviation Training Center) において実施された。緊急行動計画に基づくシンガポールにおける第三国研修は、港湾工学、港湾機器維持管理、空港管理、空難救助と4コースが実施されたが、本研修コースの研修評価の為、8月27日から9月2日迄調査団を派遣した。

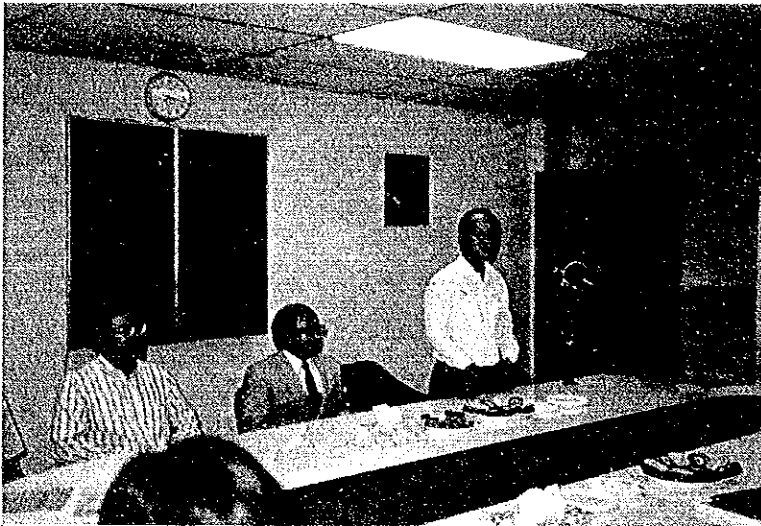
本報告書は、上記調査団が研修成果の達成度、日本の協力等について、シンガポール側の実施機関他と協力し、調査した結果をまとめたものである。

本件協力遂行に御協力を頂いた外務省、運輸省、海上保安庁に感謝を申し上げますと共に、現地でご支援頂いたシンガポール政府関係機関及び在シンガポール日本大使館に対し、深甚なる謝意を表する次第である。

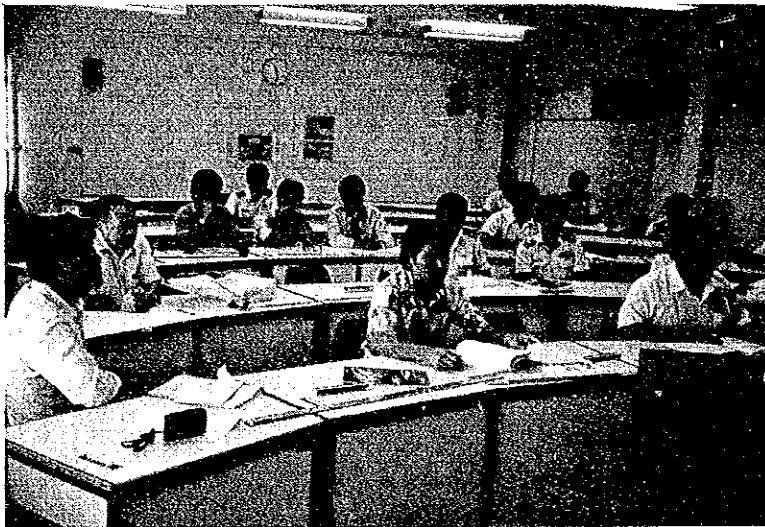
昭和61年11月

国際協力事業団
研修事業部長

國際協力事業團		
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閉 講 式
CATC所長 Mr. Chan
Wing Dai のあいさつ
(CATC会講室)



授 業 風 景



Certificate の授与

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1. 研修評価調査団の派遣

1.1 派遣の経緯と目的

「空難救助」コースは、アセアン太平洋人づくり緊急行動計画（APC-HRD緊急行動計画）の一環として日・シ両政府の協力のもとに実施される第三国研修（港湾管理、港湾機器維持管理、空港管理、空難救助の4コース）の1つである。これら4コースの実施にあたり、昭和61年1月に実施協議調査団が派遣され、Record of Discussionsが締結された。

APC-HRD緊急行動計画は、一応1年限りで終了するが、次年度以降については、本年度実施するコースの評価結果及び予算等、その他の条件を勘案し、日・シ相方が協議して決めることで、「シ」側との間で了解が得られている。

以上の経緯をふまえ、

- ① 空難救助コースの終了に伴う評価の実施
- ② 空難救助コースの次年度以降の取扱いに関する「シ」側の意向打診を目的として、本評価調査団が派遣された。

1.2 調査団の構成

田口定則	総括	JIOA九州支部長
佐々木直彦	研修評価	海上保安庁国際課補佐官
鍋屋史朗	業務調整	JICA研修二課

1.3 調査日程

日時	場所	内容	日本側出席者	「シ」側出席者
8/27(水)		JL719 成田→シンガポール JICA事務所長と 日程打合せ		
8/28(木) AM	JICA事務所、外務省	打合せ 評価方法、作業等打合せ	田中所長 団員	Mr. Calvin Eu (Asst. Director) Mr. Tong Tek Liong (Country Officer) Mr. Peter Chua (Country Asst.) (以上「シ」外務省ASEAN局)

日 時	場 所	内 容	日本側出席者	「シ」側出席者
8/28(木) PM	C A T C	評価方法、作業等打 合せ 施設見学 Questionnaireの回 収、分析	田 中 所 長 団 員	Mr. Chon Wing Dai (Superintendent) Mr. Sim Siang Lim (Senior Air Traffic Control Officer) Capt. Robert Tng (Instructor)
8/29(金) AM	C A T C	閉講式出席	田 中 所 長 団 員	Mr. Tong Tek Liang (「シ」外務省) Mr. Chan Wing Dai Mr. Sim Siang Lim Capt. Robert Tng 研修員(14名)
		評価会(I) (インタビュー含む)	田 中 所 長 団 員	Mr. Chan Wing Dai Mr. Sim Siang Lim Capt. Robert Tng 研修員(7名)
PM	ホ テ ル	評価会(I)要旨取り まとめ	団 員	
8/30(土) AM	C A T C	・評価会(II) ・ Summary Rep- ort (案)検討	団 員	Mr. Chan Wing Dai Mr. Sim Siang Lim Capt. Robert Tng
	日本大使館	報 告	中崎一等書記官 田 中 所 長 団 員	
PM		Summary Report 作成	団 員	
8/31(日)		休 日		
9/1(月) PM		Minutes of Disc- ussionについて協 議	田 中 所 長 団 員	Mr. Ong Lu King (Senior Asst. Director) Mr. Calvin Eu Mr. Peter Chua (以上「シ」外務省) Mr. Chan Wing Dai (CATC)
9/2(火)		シンガポール → 成田 SQ012 シンガポール → マニラ SQ082	佐々木 団 員 田 口 団 長 鍋 屋 団 員	

1.4 評価方法

1) 評価コメント収集対象者

- ① 研修員
- ② C A T C
- ③ 派遣専門家
- ④ J I C A シンガポール事務所

2) 評価作業

本年7月に派遣された「港湾管理、港湾機器維持管理」評価調査団（団長：石崎光夫、J I C A 研修管理課長）にならい、以下のとおり実施した。

<国内作業>

- ① Questionnaire (ANNEX-3) の作成及びシンガポールへの送付 (J I C A 本部 → J I C A 「シ」事務所 → 「シ」外務省、C A T C → 研修員)
- ② 派遣専門家より評価、コメント聴取

<国外作業>

- ③ 全体会議 (C A T C、「シ」外務省、調査団、J I C A 「シ」事務所長) において、評価方法、作業 (Questionnaire 内容、Interview、合同評価の実施等) について確認
- ④ 研修員より Questionnaire の回収、分析
- ⑤ 研修員へのインタビュー
- ⑥ 合同評価の実施
- ⑦ Summary Report on the Evaluation の作成及び Minutes of Discnsions への署名

2. 研修計画

2.1 経緯

昭和60年7月にマレーシアで行なわれたASEAN拡大会議において採択されたASEAN・太平洋人造り協力緊急行動計画の一環として、シンガポール政府は、本コースを含む4コース（港湾分野2コース、航空合野2コース）の実施を提案した。

これを受けて我国は、同コースの概要及びフレームワークに関し、「シ」側と協議するため、昭和60年10月に事前調査団を派遣した結果、4コース全てについて第三国研修の実施可能性が有るとの結論に達した。

本コースは、CATC側の強い要望も有りすでにCATCが実施している研修コースの定員の一部を第三国研修ベース（JICAベース）の研修員に充てる形をとった。

2.2 研修計画

1) コース名

和文：空難救助コース

英文：Search and Rescue Mission Coordinator's Course

2) 目的

発展途上国において、既に4年以上航空管制の実務を経験し、飛行場管制（レーディング）を有する中堅の管制職員に対し、搜索救難に関する理論を修得させ、実践的訓練を体験させることにより搜索救難についての専門家（Coordinator）を養成する。

3) 研修期間

昭和61年7月28日～8月29日（5週間）

4) カリキュラム

前半3週間は、搜索救難の組織、搜索範囲の確定方法、実際の搜索救難の手順等に関する理論の修得が、後半2週間は実際の搜索を想定した実践的訓練が行われる。日本人専門家による講義は、2課題実施される。

5) 割当国

14ヶ国：ASEAN 6ヶ国、P.N.G、フィジー、トンガ、ソロモン諸島、キリバス、西サモア、クック諸島、バヌアツ

6) 定員

7名

7) 応募資格

① 4年以上航空管制の実務経験を有する者

② 飛行場管制の資格（レーティング）を有する者

2.3 実施機関

民間航空訓練センター（Civil Aviation Training Center、以下CATC）は、シンガポール航空庁（Civil Aviation Authority of Singapore、以下CAAS）の附属機関として、1958年に設立され、航空における種々の研修を実施している。1978年には、UNDP及びICAO（International Civil Aviation Organization）により、アジア・太平洋地域における民間航空に係る種々の要求に応えるため、特定の研修を実施する機関として指定された。開設後現在までに、アジア・太平洋、中東、アフリカ諸国から8,300人以上（シンガポール人を除く）の研修員を受入れ、現在内外の研修員を対象に7コース（詳細は第三国研修実施協議報告書を参照のこと）を実施している。

3. 研修の実績

3.1 参加研修員

7名(ANNEX 1のANNEX Bを参照)

3.2 カリキュラム

研修計画に従い実施された。(詳細はANNEX-2のとおり)

3.3 研修指導体制

コースは、日本人専門家2名を含め、7名(講師名はANNEX-2のとおり)の講師で実施された。中心となる講師は、Mr. Sim Siang Lim及びCpt. Robert Tngの両名であった。

3.4 研修運営管理

1) 受入手続及び経理処理

第三国研修実施手続(実施協議報告書57、58頁参照)に基づき、遅滞なく実施された。

2) コースコーディネーション

後述のとおり、特に大きな問題はなかった。

修了証書は、CATC作成(ANNEX-4)と「シ」国外務省アセアン局作成成分(JICA「シ」事務所長署名が併記となっている)の2種類が授与された。

3) 生活環境

① 宿泊施設

CATC実施コース参加者が通常宿泊するライオン・シティホテルを利用した。

② 食事等

適宜、ホテル、CATCのカフェテリア等を利用した。

③ 厚生活動施設

CATCには屋外にバレーボールコート、屋内体育館が設置されている。

④ 交通手段

ホテル～CATC間は、ホテルで用意したバスを利用した。

3.5 日本の協力

1) 経費

経費 内 訳	概 算 額	
	金額(S\$)	積算基礎
第三国研修実施経費	52,151	
I 受入諸費	28,386	
1. 航空賃	11,460	1,910 × 6人
2. 日当	9,660	46 × 6人 × 35日
3. 宿泊	6,324	62 × 3室 × 34日
4. 保険	192	32 × 6人
5. 空港送迎	750	25 × 10時間 × 3日
II 研修諸費	23,765	
1. 授業料	18,375	2,625 × 7人
2. 修了証書	140	20 × 7人
3. アルバイト備上費	4,250	35 × 50日
4. 諸雑費	1,000	

2) 専門家

① 小澤友義氏 海上保安庁警備救難部救難課長

② 兄玉毅氏 第三管区海上保安本部警備救難課長

両氏とも、8月2日から8月8日までに派遣された。

4. 関係者による評価

4.1 実施機関（CATC）による評価

研修員は、極めて前向きに熱心に研修に取り組み、この研修は成功したといえる。JICAに協力してもらえるのであれば、来年度も継続していきたい。

問題は語学の問題で、普通の速さで話した場合、自分達の説明していることが理解されなくなるので、説明の速度を相当落とさざるを得なかった。また、数学の基礎的な知識に問題のあるものがいた。この結果、研修の到達目標に達し得なかった者がいた。

日本から派遣された講師は、教材・ビデオ等を良く準備しており、詳細なデータを提供され、大変有益であった。

4.2 研修員による評価

アンケート調査結果からも窺われるように、72%の研修員がカリキュラムの範囲、レベルについて適切と答え、教え方についても100%近くが満足のいくものと答え、また研修結果についても100%が有益と答えたように、本コースは非常に好評であった。

但し、語学面で理解が困難な面があり、もう少しゆっくり説明してもらいたかったとの声が、一部研修員よりあった。これに関連してもう1～2週間研修期間を長くしてほしいとの要望、また、研修員相互の親睦の機会を更に増やしてもらいたいとの要望があった。

日本からの専門家の講義については、日本にあのような充実した捜索救難専門の機関があるとは驚き(fantastic)であったとの感想が、特に太平洋諸国からの研修員から出された。太平洋諸国は、その広大な海域にもかかわらず、救助用の勢力はゼロに等しく、オーストラリアやニュージーランドから救援を呼ぶにも時間がかかり過ぎ、つい2～3年前も約150人を乗せた旅客船の遭難があり、ほとんど死亡したとの事例が紹介された。また、この研修に関連して、日本の施設を見学する機会を持ちたいと希望していた。

シンガポールの地元の研修員と一緒に講義を受ける点については、理解が不十分であった点や、間違っ理解していた点を教えてもらえるので、むしろ好都合であったと積極的な評価があった。

今回学んで得た知識を国へ持ち帰って、同僚に伝え実地に移していくつもりであると話していた。

4.3 専門家による評価

研修員は、皆大変熱心に聴講してくれ、十分に満足のいくものであった。

講義には、CATCのスタッフの出席まで頂き、特に海上保安庁の船舶航行管制システムで

ある東京湾海上交通センターや教育訓練施設である海上保安大学校に関心を示し、熱心な質問を頂いた。

また、持参したビデオも好評であった。

5. 評 価

5.1 計画の妥当性

1) タイトル

妥当と考えられる

2) 目 的

妥当と考えられる

3) 期 間

5週間という期間は、相当充実したものと思われ、妥当と考えられる。また、時期についても特段の支障は窺われなかった。

4) カリキュラム

捜索救助に必要な課目を体系的に網羅しており、妥当と考えられる。理論面と実践面のバランスも良く配慮されている。

5) 定 員

従来、本コースは定員を1-2名としており、今回は14名（JICA研修員7名を含む）の研修員参加となったが、特に支障はないとのことであった。

6) 応募資格

妥当と思われる。但し、一部参加者の語学力に問題が有り、今後資格審査を厳しくしたいとの要望に留意する必要がある。

5.2 研修実施機関

1) 研修指導能力

最初のコンピューター制御シュミレーション機器を導入するなど、途上国とは思えないほど充実した研修施設であり、また講師陣も専門性が高く、熱意にあふれる人達であった。

その厳しさは、いかに外国からの研修員であれ、試験で一定の得点に達しないものは、コースをパスさせないという態度にも窺われた。

研修指導能力は十分備わっているものと認められた。

2) 運営管理能力

本コースを含め、これまで多くの外国人研修員を受入れており、受入手続、生活環境等に特に大きな問題はない。

6. コースの継続について

「シ」外務省によると、APC-HRD緊急行動計画は、先のASEAN拡大外相会議で、2年間のモラトリアムとなった模様であり、今後は二国間でのコース実施について、本調査団に打診があった。またCATCも、今回と同じ突っ込み方式でのコース実施については、支障がない旨回答があった。

上述のとおり、本コースはその充実した指導体制のもとに運営され、研修員からの評価も高いと判断されるところ、コースを継続することについては、何ら問題点は見当たらない。但し、実施経費のJICA事務所からの支払い方法（特に宿泊費等）については、事務所の業務負担を考慮し、再考する必要があると思われる。

7. 協議内容

7.1 協議経緯

- 1) まず外務省にて、空難救助コースの評価方法、作業等については、前回の石崎ミッションにならう旨説明し、了解を得た。
- 2) 引き続きCATCにおいて、Mr. Chan Wig Daiが石崎ミッションの評価会議に同席していたこともあり、評価方法、作業等については、石崎ミッションにならう旨説明し、同じく了解を得た。
- 3) 評価会は、参加研修員全員(14名)を対象にしたものと、JICAベースの研修員(7名)を対象にしたものの2回に分けて実施され、Questionnaireの結果と併せて、翌日再度評価会議をもち、Summary Reportの検討をおこなった。
- 4) 上記会議を通じ作成したSummary Reportをもとに、外務省、CATC、調査団、JICA事務所長とで内容の確認をし、後日、田口団長及び新任のASEAN局長Mr. Azizとの間でMinutes of Discussionへの署名をすることとなった。

7.2 協議、確認事項

- 1) コース評価におけるUNDPへの配慮について

CATCにはUNDPからの資金援助もあり、また同コースにはUNDP派遣による研修員も参加していたことから、コース評価においてUNDPへの何らかの配慮が必要かどうか、「シ」外務省及びCATCに確認したところ、特段の必要はないとの回答を得た。なお、講師はすべてシンガポール人が担当しており、UNDPからの派遣はないとのことであった。

- 2) 研修期間の延長について

「4.2 研修員による評価」にある研修期間の延長要望については、期間の延長は逆に集中力を欠く等のデメリットを生むことにもなり、本コースは5週間で充分であるとの説明が、CATCよりあった。

- 3) JICAコースの新設について

これまでの日本側との協議で説明したとおり、CATCの人員、対応能力を考えた場合、JICA第三国研修用のコースの新設は困難である旨、CATCより再度説明があった。

**MINUTES OF DISCUSSIONS BETWEEN THE JAPANESE EVALUATION TEAM
AND THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF SINGAPORE
ON THE THIRD COUNTRY TRAINING PROGRAMME**

The Japanese Evaluation Team (hereinafter referred to as "the Team") organised by Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Sadanori TAGUCHI visited Singapore from August 27, to September 2, 1986 for the purpose of evaluating the training course in the field of "Search and Rescue Mission Co-ordination" conducted at the Civil Aviation Training Center in the fiscal year of 1986 (April 1, 1986 - March 31, 1987) under the Third Country Training Programme of JICA as one of the Immediate Action Programme of the ASEAN - Pacific Co-operation for Human Resources Development.

During its stay in Singapore, the Team had a series of discussions with the authorities concerned of the Singapore Government with respect to the achievement of the above-mentioned training course, outline of which is summarised and attached as the summary report.

Singapore, September 1, 1986

SADANORI TAGUCHI
HEAD
JAPANESE EVALUATION TEAM
JAPAN INTERNATIONAL COOPERATION
AGENCY

ABDUL AZIZ MAHMOOD
DIRECTOR GENERAL
SINGAPORE ASEAN NATIONAL
SECRETARIAT

Summary Report on the Evaluation of the Course in Search and Rescue Mission Co-ordination.

1. OBJECTIVE

With regard to the awareness of the course objectives before coming to Singapore, 100% of the participants marked positive answers.

Achievement of major objectives and fulfillment of their expectation of the course were satisfactory since all the participants answered favorably.

2. CURRICULUM DESIGN

- 1) 72% of the participants regarded the coverage of the subject as "just right", while 28% of the participants regarded it as "somewhat broad" or "too broad". In view of these comments it would appear that the coverage on the course was appropriate.
- 2) Regarding the level of curriculum, 72% of the participants answered "just right". However, the rest of them answered "somewhat advanced" or "too advanced". In view of the above, the level of curriculum appears to be adequate.
- 3) 72% of the participants commented that time allocation for lecture was "just right".
- 4) Regarding the time allocation for discussion, 80% of the participants answered "just right".
- 5) With regard to the time allocation for exercises, 44% of the participants commented "just right". However, 28% of the participants answered "somewhat little" and another 28% commented "somewhat much". In view of these comments, it would appear that the time allocated to exercises was correct because if it had been longer, the 28% who had commented "somewhat much" would have commented "too much" and if it had been shorter, the 28% who had commented "somewhat little" would have commented "too little".
- 6) With regard to the time allocation for observation, 72% of the participants commented as "just right", while 28% commented "somewhat much".

- 7) With regard to intensity, 58% of the participants commented as "just right", while 42% commented "somewhat hard" or "too hard". This is because some of the participants experienced language difficulty and as a result found the course difficult to follow.
- 8) With regard to the training duration, 72% of the participants commented as "somewhat short", while 28% felt that sufficient time was provided. However, we consider the duration to be appropriate because although 72% of the participants felt that it was "somewhat short", 72% passed the course. Most probably, to them the course was "somewhat short", because they would have preferred the lectures to be conducted at a slower pace and to be given more time to study. But we feel that since the participants were attending a training course they had to put in sufficient effort.

3. COURSE CONDUCT

- 1) Almost all aspects of teaching methods including methods of instruction and presentation, communications, participants' involvement and participation, quality and quantity of training materials, quality and quantity of training facilities were very favorably evaluated as nearly 100% of the participants marked "satisfactory".
- 2) As all the participants replied that what they studied in the course would be applicable in their respective countries, the training can be considered as having been beneficial.

4. ADMINISTRATION AND MANAGEMENT

The participants generally commented that the course was well organized and administered efficiently with regard to the co-ordination, pre-course briefing, transportation, observation, housing and food, accommodation and allowance.

However, 72% of the participants commented that more social programmes could have been arranged.

5. TRAINING OUTCOMES

With regard to the training outcomes, all the participants were of the opinion that the course had met their training objectives satisfactorily.

6. CONCLUSION

- 1) In summary, it can be stated that the participants were generally satisfied with course coverage, conduct and administration of the Search and Rescue Mission Co-ordinator's Course. Therefore, it can be concluded that the course was successfully conducted. This was due, in part, to the supplementary lessons given to the weaker participants.
- 2) All the participants agreed that the course was very beneficial and strongly recommended that it should continue to be conducted in future.

However, the following point could be taken into account to improve future courses.

- More details of the participants' educational qualifications should be obtained from the sending governments. This is because some of the participants had problems with the English language and mathematics. This had created problems for themselves and the instructors as sufficient proficiency in these two subjects is necessary if a participant is to be able to follow the lessons without difficulty. Perhaps certified copies of the participants' academic certificates should be attached to the nomination forms.

ANNEX

- A - Brief Summary of JICA Questionnaire
- B - List of Course Participants
- C - List of Japanese and Singapore Evaluation Team

ANNEX A

BRIEF SUMMARY OF JICA QUESTIONNAIRE

I OBJECTIVES

1. To what extent were you aware of the objectives of this training programme before you came to Singapore?
- | | |
|--------------|-----|
| Fully aware | 14% |
| Almost aware | 14% |
| Fairly aware | 72% |
- 2) Please indicate whether the main objectives were:
- | | |
|------------|-----|
| Almost met | 72% |
| Fairly met | 28% |
- 3) In your opinion, to what extent was your expectation of this Course fulfilled?
- | | |
|----------------------|-----|
| Completely fulfilled | 28% |
| Almost fulfilled | 58% |
| Fairly fulfilled | 14% |

II CURRICULUM DESIGN

- 1) Coverage, Level, Time Allocations, Intensity and Duration
- a) Coverage of the subjects
- | | |
|----------------|-----|
| Just right | 72% |
| Somewhat broad | 14% |
| Too broad | 14% |
- b) Level
- | | |
|-------------------|-----|
| Just right | 72% |
| Somewhat advanced | 14% |
| Too advanced | 14% |

c) Time Allocation

Lectures:

Just right 72%

Somewhat little 14%

Too much 14%

Discussion:

Just right 86%

Somewhat much 14%

Exercises: (Involvement of Participants)

Just right 44%

Somewhat little 28%

Somewhat much 28%

Observation:

Just right 72%

Somewhat much 28%

d) Intensity

Just right 58%

Somewhat hard 14%

Too hard 28%

e) Duration

Just right 14%

Somewhat short 72%

Somewhat long 14%

III COURSE CONDUCT

1. Teaching Method

Method of instruction and presentation:

Outstanding	12%
Very good	27%
Good	58%
Poor	2%
Very Poor	2%

Communication Language:

Outstanding	3%
Very Good	32%
Good	44%
Poor	18%
Very Poor	4%

Participants involvement and participation:

Outstanding	5%
Very good	38%
Good	47%
Poor	8%
Very Poor	2%

Quality and quantity of training materials:

Outstanding	13%
Very Good	31%
Good	56%
Poor	1%

Quality and Quantity of training facilities:

Outstanding	10%
Very Good	46%
Good	43%
Poor	1%

Total evaluation:

Outstanding	5%
Very Good	37%
Good	56%
Poor	3%

2. Application of techniques and knowledge:

Quite many	58%
Many	42%

IV ADMINISTRATION AND MANAGEMENT

a.	Co-ordination	
	Very good	72%
	Good	28%
b.	Pre-course information (G.I.)	
	Very good	72%
	Good	28%
c.	Arrangement for Observation Trips	
	Very good	58%
	Good	42%
d.	Housing and Food Accommodations	
	Very good	28%
	Good	72%

e.	Allowances	
	Reasonable	100%
f.	Transportation	
	Very convenient	28%
	Good	72%
g.	Social Programme	
	Good	28%
	Poor	72%
h.	Communication among participants	
	Very good	28%
	Good	72%
TRAINING OUTCOME		
	Very fruitful	86%
	Fruitful	14%

ANNEX B

LIST OF PARTICIPANTS FOR THE SEARCH AND RESCUE MISSION COORDINATOR'S COURSE
UNDER THE ASEAN-PACIFIC COOPERATION FOR HUMAN RESOURCES DEVELOPMENT PROGRAMME

<u>COUNTRY</u>	<u>NAME/DESIGNATION</u>	<u>DATE OF BIRTH</u>	<u>SEX</u>
Fiji	1) Mr Robert Yabin Fong Sr Air Traffic Control Officer Civil Aviation Authority of Fiji Tel No 72500	7.3.1947	Male
Malaysia	2) Mr Sim Siang Chin Air Traffic Controller (Instructor) Kolej Penerbangan Awam Lapangan Terbang Antarabangsa 47200, Subang, Selangor Tel No 03-7768333	14.12.1947	Male
Indonesia	3) Mr Subagjo Operational Officer Port Administration Directorate General of Sea Communication, Jl Medan - Merdeka Timur No. 5 Jakarta, Indonesia Tel No. 365097	25.11.1946	Male
Singapore	4) Mr Lim Teck Guan Air Traffic Controller, Grade IV Civil Aviation Authority of Singapore Singapore Changi Airport Singapore 1781 Tel No. 5421122	9.4.1954	Male

<u>COUNTRY</u>	<u>NAME/DESIGNATION</u>	<u>DATE OF BIRTH</u>	<u>SEX</u>
Thailand	5) Miss Somsook Tongsuithi Air Traffic Controller 3 Department of Aviation Bangkok, Thailand Tel No. 2860506	6:8.1956	Female
Tonga	6) Mr Soane Patolo Sr Airport Supervisor Ministry of Civil Aviation Tonga Tel No 21-744	3.2.1954	Male
Vanuatu	7) Mr Hendry Toni Joewangeh Air Traffic Control Officer PORT-VILA VANUATU Tel No 2730	5.10.1962	Male

LIST OF JAPAN/SINGAPORE EVALUATION TEAM

- 1 Mr Abdul Aziz Mahmood
Director General
ASEAN Division
Ministry of Foreign Affairs
- 2 Mr Ong Lu King
Senior Assistant Director
ASEAN Division
Ministry of Foreign Affairs
- 3 Mr Calvin Eu
Assistant Director
ASEAN Division
Ministry of Foreign Affairs
- 4 Mr Foo Chin Kwok
Assistant Director
ASEAN Division
Ministry of Foreign Affairs
- 5 Mr Tong Tek Liong
Country Officer
ASEAN Division
Ministry of Foreign Affairs
- 6 Mr Peter Chua
Country Assistant
ASEAN Division
Ministry of Foreign Affairs
- 7 Mr Chan Wing Dai
Superintendent
CATC
- 8 Mr Sim Siang Lim
Senior Air Traffic Control Officer
CATC
- 9 Capt Robert Tng

- 10 Mr S Taguchi
Director
Kyushu Branch
JICA
- 11 Mr N Sasaki
Deputy Director
International Affairs Division
Maritime Safety Agency
- 12 Mr S Nabeya
Second Training Division
Training Affairs Department
JICA
- 13 Mr H Tanaka
Director
JICA Singapore Office

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CIVIL AVIATION TRAINING CENTRE
REPUBLIC OF SINGAPORE

COURSE HANDBOOK

NO. 4 JOINT CIVIL/MILITARY AND
No. 2 UNDP
SEARCH AND RESCUE MISSION
CO-ORDINATOR'S (SMC) COURSE

28 JUL 86 - 29 AUG 86

**NO. 4 JOINT CIVIL/MILITARY AND NO. 2 UNDP
SEARCH AND RESCUE MISSION CO-ORDINATOR'S (SMC) COURSE**

28 JUL 86 - 29 AUG 86

TRAINEES

<u>S/No</u>	<u>Name</u>	<u>Organisation</u>	<u>Country</u>
1	Somsook Tonguthi (Miss)	Dept of Aviation	Thailand
2	Hendry Toni Joewangeh	Civil Aviation Dept	Vanuatu
3	Seboreso Mpho Machobane	Dept of Civil Aviation	Lesotho
4	Robert Yahin Fong	Civil Aviation Authority	Fiji
5	Soane Patolo	Ministry of Civil Aviation	Tonga
6	Sim Siong Chin	Dept of Civil Aviation	W Malaysia
7	Subagjo	Directorate General of Sea Communication	Indonesia
8	CPT Robert Wang	RSAF	Singapore
9	LTA Luke Neubronner	RSAF	Singapore
10	LTA Sam Han Mun	RSAF	Singapore
11	2LT Yeo Eng Huat	RSAF	Singapore
12	CPT M Selvakumar	RSN	Singapore
13	Rosly Sa'ad	Civil Aviation Authority	Singapore
14	Lim Teck Guan	Civil Aviation Authority	Singapore

WELCOME TO CIVIL AVIATION TRAINING CENTRE

We hope that you will succeed in the Course for which you have been selected to attend and that you will enjoy your stay with us.

The following is for your information.

1 LIBRARY

1.1 The Library has a reasonably large collection of books and magazines which can be borrowed by trainees. It can also be used for private study. More information on the Library facilities can be obtained from the librarian.

2 SPORTS FACILITIES

2.1 Trainees can play games such as badminton, table tennis and chess. Information on the use of sports facilities can be obtained from your Course Manager.

3 BUSES

3.1 Buses which operate to the Seletar Air Base main gate are Services Nos. 70, 103 and 163. Services No. 214E and 214W operate within the Air Base. A bus stop serving these 2 bus services is situated near the Training Centre.

4 CATEC CANTEEN

4.1 Meals are available from our own canteen which operates according to the following hours:

Mondays to Fridays (excluding holidays):

Breakfast : 7.30 am - 9 am
Lunch : 11.30 am - 2 pm.

4.2 Please note that snacks and beverages will be available throughout the day.

5 TELEPHONES

5.1 Public Coin Telephones installed in the Training Centre can be used for calls within Singapore. For overseas trunk calls, please refer to your Course Manager or the General Office for information.

6 MAIL

6.1 A Post Office is within walking distance from the Training Centre. Students' mail, when received, will be handed over to them through their respective Course Managers. Students may also call at the Registry for their mail at the following times:

12 pm and 4 pm.

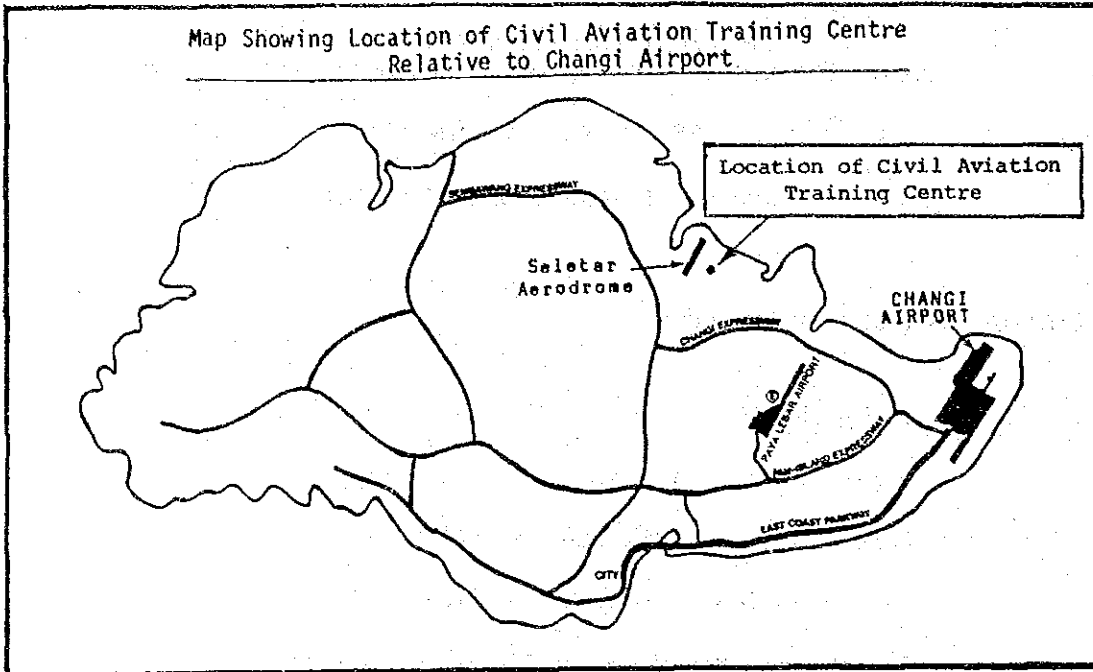
6.2 Mail to be received at the Training Centre should be addressed as follows:

Your Name
Course No.
Civil Aviation Training Centre
1021 Mornington Crescent
Seletar Airport
Singapore 2879
REPUBLIC OF SINGAPORE.

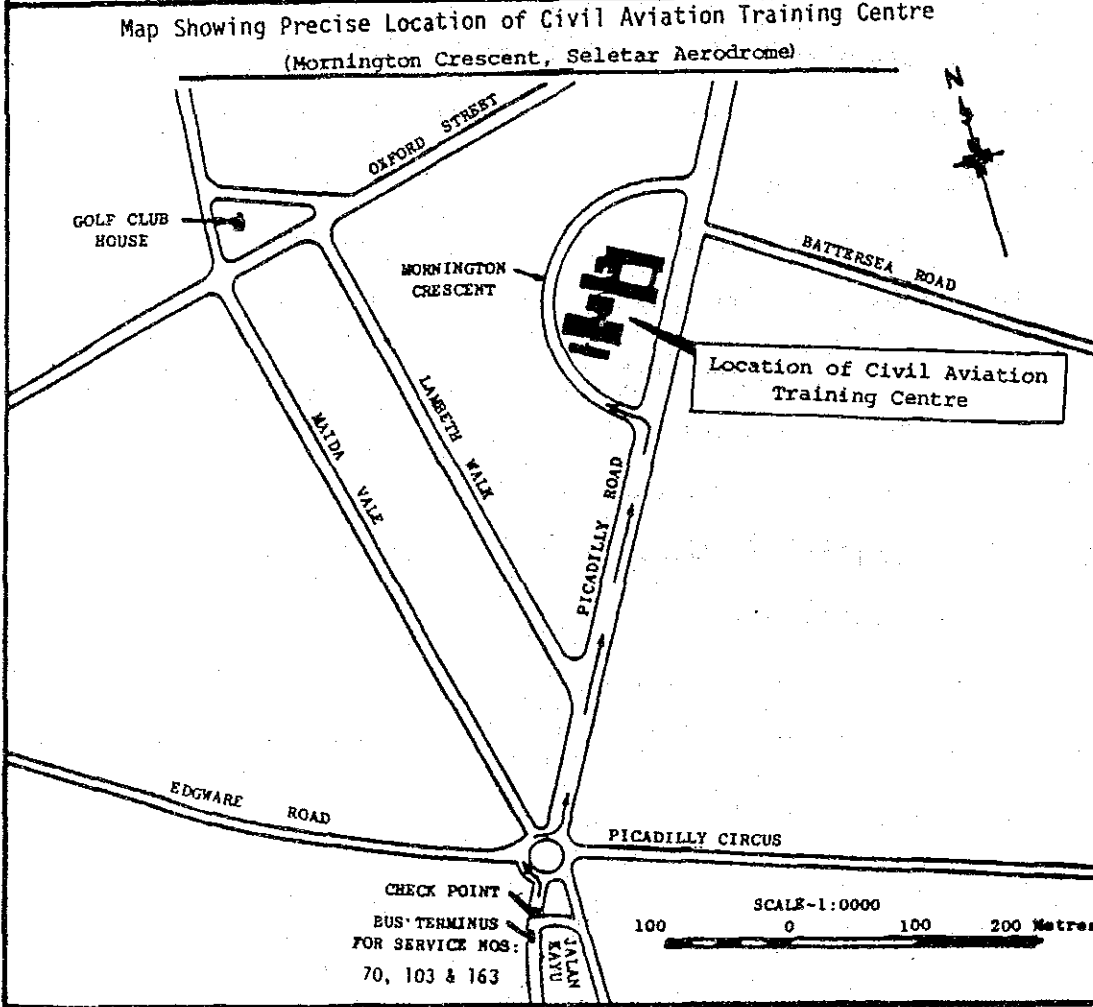
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APPENDIX 1

Map Showing Location of Civil Aviation Training Centre  
Relative to Changi Airport.



Map Showing Precise Location of Civil Aviation Training Centre  
(Mornington Crescent, Seletar Aerodrome)



NO. 4 JOINT CIVIL/MILITARY AND NO. 2 UNDP  
SEARCH AND RESCUE MISSION CO-ORDINATOR'S (SMC) COURSE

28 JUN 86 - 29 AUG 86

COURSE MANAGER : SIM SIANG LIM

LIST OF LECTURERS & SUBJECTS

1. Sim Siang Lim
  - a. Organisation, SAR Units and Facilities
  - b. Determination of Search Area (Theory)
  - c. Determination of Search Area (Practical Calculation)
  - d. Search Area Coverage
  - e. SAR Administration RCC
  
2. Cpt Robert Ing
  - a. SAR Phase Action
  - b. Conduct of Search
  - c. Air Search Patterns
  - d. Search Area Description
  - e. Intercept and Escort
  - f. Supplies and Supply Drop
  - g. Communications
  - h. Rescue of Survivors.



3. **GUEST LECTURER FROM METEOROLOGICAL SERVICE (Mr. Wong Teo Suan)**
  - a. Contents of MET Information
  - b. Issuance
  - c. Dissemination
  - d. Reviews and Amendments
  - e. Numbering of Reports & Forecasts
  - f. Notification of SAR Activation and Transmission of Reports & Forecasts to MET Tengah & MET Paya Lebar.
  
4. **GUEST LECTURER FROM MARINE DEPARTMENT (Mr. I.G. Sungamesnar)**
  - a. Merchant Ship's SAR Capabilities
  - b. Merchant Ship's SAR Facilities
  - c. Merchant Ship's Communication Facilities
  - d. How they could be contacted if they are required to assist in a SAR Operation.
  
5. **GUEST LECTURER:**

Mr T Ozawa, Director, Rescue Division, Guard & Rescue Dept, Maritime Safety Agency, Japan.

Japanese Maritime Support to Aeronautical/SAR.
  
6. **GUEST LECTURER:**

Mr T Kodama, Director, Guard & Rescue Dept, 3rd Regional Maritime Safety HQ, Japan.

SAR Organisation and Operations in Japan.
  
7. Mr Michael Seow, CATC Instructor will assist in the practical sessions.

NO.4 JOINT CIVIL/MILITARY AND NO.2 UNDP  
SEARCH AND RESCUE MISSION CO-ORDINATOR'S (SMC) COURSE

1. OBJECTIVE

1.1 This course is designed to train CAAS/RSAF Air Traffic Controllers and such personnel as may be designated for roles in SAR Co-ordination and to teach them the SAR Co-ordination concepts and procedures employed by CAAS and RSAF. The procedures employed by CAAS are in accordance with ICAO's Standards and Recommended practices.

2. DURATION

2.1 The duration of the course is 5 weeks.

3. COURSE CAPACITY

3.1 A maximum of 12 trainees can be accommodated in the course.

4. PREREQUISITES

4.1 Trainees should preferably have a good working knowledge of ATC, English and Mathematics.

5. FAMILIARISATION VISITS

5.1 Familiarisation visits to SAR Units and facilities would be arranged.

6. FILM SHOWS

6.1 Films on SAR and associated SAR facilities would be shown.

7. EXAMINATIONS

7.1 Trainees will be required to sit for the following papers:-

|                                                    |       |           |
|----------------------------------------------------|-------|-----------|
| Maritime Datum/Drift Error/ Radius and Search Area | -     | 100 marks |
| Aircraft Allocation                                | -     | 100 marks |
| Sector Search Calculation                          | -     | 100 marks |
| Intercept and Escort Plotting                      | -     | 100 marks |
| SAR Paper I                                        | -     | 100 marks |
| SAR Paper II                                       | -     | 100 marks |
|                                                    |       | <hr/>     |
|                                                    | TOTAL | 600 marks |
|                                                    |       | <hr/>     |

7.2 To pass the course, the trainee must obtain at least 70% of the maximum marks attainable for each of the abovementioned examination.

7.3 The decision to refer a candidate who has failed in one or more examinations will be at the discretion of the Training Centre. Each case will be treated on its merits. A re-examination in any of the written papers may take the form of an oral test.

EXAMINATIONS

- |    |                              |   |           |         |
|----|------------------------------|---|-----------|---------|
| 1. | SECTOR SEARCH CALCULATIONS   | - | MONDAY    | 18.8.86 |
| 2. | INTERCEPT & ESCORT PLOTTING  | - | WEDNESDAY | 20.8.86 |
| 3. | MARITIME DATUM & SEARCH AREA | - | FRIDAY    | 22.8.86 |
| 4. | AIRCRAFT ALLOCATION          | - | SATURDAY  | 23.8.86 |
| 5. | SAR PAPER 1                  | - | MONDAY    | 25.8.86 |
| 6. | SAR PAPER 2                  | - | WEDNESDAY | 27.8.86 |

SEARCH AND RESCUE MISSION CO-ORDINATORS'  
COURSE SYLLABUS

| ELEMENT                             | SUB-ELEMENT                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------|
| 1. Search & Rescue Organisation     | 1.1 General                                                                       |
|                                     | 1.2 Policy                                                                        |
|                                     | 1.3 Rescue Co-ordination Centre (RCC)                                             |
|                                     | 1.4 Determination of Responsible RCC                                              |
|                                     | 1.5 Air Traffic Control Units                                                     |
|                                     | 1.6 Provision of entry of Foreign aircraft into Singapore SRR or any adjacent SRR |
|                                     | 1.7 Search and Rescue Units                                                       |
|                                     | 1.8 Selection of Search and Rescue Units                                          |
|                                     | 1.9 Air Facilities                                                                |
|                                     | 1.10 Marine Craft                                                                 |
|                                     | 1.11 Use of Auxiliary In-shore Craft                                              |
|                                     | 1.12 Naval Vessels                                                                |
|                                     | 1.13 Use of Merchant Shipping                                                     |
|                                     | 1.14 Land Rescue Units                                                            |
| 2. Search and Rescue (SAR) Alerting | 2.1 General                                                                       |
|                                     | 2.2 Notification                                                                  |
|                                     | 2.3 SAR Phases                                                                    |
|                                     | 2.4 Provision of Information to RCC                                               |
|                                     | 2.5 Basis for Initiation of Alerting Action                                       |
|                                     | 2.6 Continuous Communications SAR Watch                                           |
|                                     | 2.7 Communications Checks                                                         |
|                                     | 2.8 Incidental Information on Emergencies                                         |
|                                     | 2.9 Irregular Operations                                                          |
|                                     | 2.10 Marine Craft                                                                 |

| ELEMENT                                                | SUB-ELEMENT                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. SAR Phase Actions -<br>Air Traffic Control<br>Units | 3.1 General<br>3.2 Unit Declaring the Phase<br>3.3 Unit Receiving Phase Advice<br>3.4 Units Concerned in Local Action<br>3.5 Communications Action - All Units<br>3.6 General Action - All Units<br>3.7 Records and Reports                                                     |
| 4. SAR Phase Actions -<br>RCC/RSC                      | 4.1 General<br>4.2 Communications Action<br>4.3 Action on Missing Aircraft<br>4.4 Navigational Assistance<br>4.5 Over-Water Emergencies<br>4.6 Intercept and Escort<br>4.7 Preparation for Search<br>4.8 Crash Aircraft<br>4.9 Records<br>4.10 Reports<br>4.11 Public Relations |
| 5. Amendment and<br>Cancellation of<br>Phases          | 5.1 Initial Declaration<br>5.2 Up-grading Phases<br>5.3 Downgrading Phases<br>5.4 Cancellation of Phases<br>5.5 Message Contents                                                                                                                                                |

| ELEMENT                                        | SUB-ELEMENT                                                                                                                                                                                                                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. MET Information for Search and Rescue (SAR) | 6.1 Introduction<br>6.2 Contents of MET Information<br>6.3 Issuance<br>6.4 Dissemination<br>6.5 Reviews and Amendments<br>6.6 Numbering of Reports and Forecasts<br>6.7 Notification of SAR Activation and Transmission of Reports/Forecasts to MET Tengah and MET Paya Lebar<br>6.8 General Information |
| 7. Determination of Search Area                | 7.1 General<br>7.2 Possibility Area<br>7.3 Determination of Datum Point<br>7.4 Determination of Search Area<br>7.5 The Repeated Expansion Concept                                                                                                                                                        |
| 8. Search Area Coverage                        | 8.1 General<br>8.2 Probability of Detection (POD)<br>8.3 Sweep Width (W)<br>8.4 Factors Affecting Sweep Width<br>8.5 Track Spacing<br>8.6 Coverage Factor (C)<br>8.7 Aircraft Search Capability<br>8.8 The Decision Aid Formula                                                                          |
| 9. Air Search Patterns                         | 9.1 General<br>9.2 Search Patterns                                                                                                                                                                                                                                                                       |

| ELEMENT                            | SUB-ELEMENT                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Air Search Patterns<br>(contd)  | 9.3 Track Crawl Pattern<br>9.4 Parallel Track Pattern<br>9.5 Creeping Line Pattern<br>9.6 Square Search<br>9.7 Sector Search<br>9.8 Contour Search<br>9.9 Electronic Search Pattern                                                                                                                                                                            |
| 10. Description of<br>Search Areas | 10.1 General<br>10.2 Geographical Coordinate Method<br>10.3 Grid Method<br>10.4 Track Line<br>10.5 Land Mark Method<br>10.6 Centre Point Method<br>10.7 Search Pattern Designation                                                                                                                                                                             |
| 11. Conduct of Search              | 11.1 General<br>11.2 RCC/RSC Responsibility and Coordination<br>11.3 Use of Air/Sea/Land Rescue Units<br>11.4 Observer Leaders<br>11.5 Aircrew Briefing<br>11.6 Marine Crew Briefing<br>11.7 Land Rescue Unit Briefing<br>11.8 Allocation of Search Aircraft to Search Areas<br>11.9 Aircraft Search Procedures<br>11.10 Search Conducted by Military Aircraft |



| ELEMENT                          | SUB-ELEMENT                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. Conduct of Search<br>(contd) | 11.11 Sighting and Hearing Reports<br>11.12 Overall Coordination<br>11.13 RCC Management<br>11.14 Records of Activities<br>11.15 Interrogation<br>11.16 Situation Reports<br>11.17 Termination of Search<br>11.18 Photographs                                                                                                                                              |
| 12. Supplies and<br>Equipment    | 12.1 General<br>12.2 Liferrafts<br>12.3 Droppable Supply Containers<br>12.4 Survival Equipment Supplies<br>12.5 Radio Equipment<br>12.6 Other SAR Equipment<br>12.7 RSAF Equipment<br>12.8 Storage and Inspection<br>12.9 Equipment and Operation<br>12.9.1 Land Drops<br>12.9.2 Signalling Equipment<br>12.10 Supply Dropping<br>12.10.1 General<br>12.10.2 The Land Drop |
| 13. Communications               | 13.1 General<br>13.2 Fixed Networks                                                                                                                                                                                                                                                                                                                                        |

| ELEMENT                       | SUB-ELEMENT                                                                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. Communications<br>(contd) | 13.3 Air Ground Communications<br>13.4 Air - Air Coordination<br>13.5 Search Aircraft to Rescue Units<br>13.6 Between Surface Units<br>13.7 Callsigns<br>13.8 Visual Signals<br>13.9 Distress Frequencies<br>13.10 Ship Radio Watch Schedules |
| 14. Administration            | 14.1 Staffing<br>14.2 RCC Facilities and Equipment<br>14.3 Operational Arrangements for the<br>Singapore Rescue Coordination Centre (RCC)                                                                                                     |
| 15. Rescue of<br>Survivors    | 15.1 General<br>15.2 Use of Aircraft<br>15.3 Use of Marine Craft<br>15.4 Land Rescue<br>15.5 Termination                                                                                                                                      |

CIVIL AVIATION TRAINING CENTRE

WEEK 1

|                      | 0830 - 1000                                    | 1030 - 1200 | 1300 - 1400        | 1500 - 1630 |
|----------------------|------------------------------------------------|-------------|--------------------|-------------|
| MONDAY<br>28.7.86    | COURSE OPENING<br>AND<br>TRAINEES REGISTRATION |             | SAR ORGANISATION   |             |
| TUESDAY<br>29.7.86   | SAR ORGANISATION                               |             | SAR PHASE ACTIONS  |             |
| WEDNESDAY<br>30.7.86 | DETERMINATION OF<br>SEARCH AREA                |             | SAR PHASE ACTIONS  |             |
| THURSDAY<br>31.7.86  | DETERMINATION OF<br>SEARCH AREA                |             | SAR PHASE ACTIONS  |             |
| FRIDAY<br>1.8.86     | SAR PHASE ACTIONS                              |             | RCC ADMINISTRATION |             |
| SATURDAY<br>2.8.86   | R E V I S I O N                                |             |                    |             |

CIVIL AVIATION TRAINING CENTRE

WEEK 2

|                     | 0830 - 1000                                                                                       | 1030 - 1200 | 1300 - 1400          | 1500 - 1630 |
|---------------------|---------------------------------------------------------------------------------------------------|-------------|----------------------|-------------|
| MONDAY<br>4.8.86    | MET INFORMATION FOR SAR                                                                           |             | SEARCH AREA COVERAGE |             |
| TUESDAY<br>5.8.86   | SAR ORGANISATION &<br>OPERATIONS IN JAPAN<br>(GUEST LECTURER)<br>MR T KODAMA                      |             | AIR SEARCH PATTERN   |             |
| WEDNESDAY<br>6.8.86 | SAR PHASE ACTIONS                                                                                 |             | VISIT SAR FACILITIES |             |
| THURSDAY<br>7.8.86  | JAPANESE MARITIME<br>SUPPORT TO AERONAUTICAL SAR<br>(GUEST LECTURER)<br>MR T OZAWA                |             | CONDUCT OF SEARCH    |             |
| FRIDAY<br>8.8.86    | MERCHANT SHIPPING<br>SAR CAPABILITIES & FACILITIES<br>BY<br>(GUEST LECTURER FROM<br>MARINE DEPT.) |             | VISIT SAR FACILITIES |             |
| SATURDAY<br>9.8.86  | PUBLIC HOLIDAY                                                                                    |             |                      |             |

CIVIL AVIATION TRAINING CENTRE

WEEK 3

|                      | 0830 - 1000                     | 1030 - 1200 | 1300 - 1400          | 1500 - 1630 |
|----------------------|---------------------------------|-------------|----------------------|-------------|
| MONDAY<br>11.8.86    | DETERMINATION OF<br>SEARCH AREA |             | AIR SEARCH PATTERN   |             |
| TUESDAY<br>12.8.86   | SEARCH AREA COVERAGE            |             | CONDUCT OF SEARCH    |             |
| WEDNESDAY<br>13.8.86 | DETERMINATION OF<br>SEARCH AREA |             | VISIT SAR FACILITIES |             |
| THURSDAY<br>14.8.86  | DETERMINATION OF<br>SEARCH AREA |             | CONDUCT OF SEARCH    |             |
| FRIDAY<br>15.8.86    | CONDUCT OF SEARCH               |             | SUPPLY & SUPPLY DROP |             |
| SATURDAY<br>16.8.86  | VISIT SAR FACILITIES            |             |                      |             |

CIVIL AVIATION TRAINING CENTRE

WEEK 4

|                      | 0830 - 1000              | 1030 - 1200 | 1300 - 1400               | 1500 - 1630 |
|----------------------|--------------------------|-------------|---------------------------|-------------|
| MONDAY<br>18.8.86    | CONDUCT OF SEARCH        |             | SECTOR SEARCH EXAM        |             |
| TUESDAY<br>19.8.86   | SEARCH AREA COVERAGE     |             | SEARCH AREA DESCRIPTION   |             |
| WEDNESDAY<br>20.8.86 | CONDUCT OF SEARCH        |             | INTERCEPT AND ESCORT EXAM |             |
| THURSDAY<br>21.8.86  | SAR COMMUNICATION        |             | VISIT SAR FACILITIES      |             |
| FRIDAY<br>22.8.86    | RESCUE OF SURVIVORS      |             | DATUM & SEARCH AREA EXAM  |             |
| SATURDAY<br>23.8.86  | AIRCRAFT ALLOCATION EXAM |             |                           |             |

CIVIL AVIATION TRAINING CENTRE

WEEK 5

|                      | 0830 - 1000                 | 1030 - 1200                 | 1300 - 1400 | 1500 - 1630 |
|----------------------|-----------------------------|-----------------------------|-------------|-------------|
| MONDAY<br>25.8.86    | SAR 1 EXAM                  | SIMULATED SAR CO-ORDINATION |             |             |
| TUESDAY<br>26.8.86   | SIMULATED SAR CO-ORDINATION |                             |             |             |
| WEDNESDAY<br>27.8.86 | SAR 2 EXAM                  | SIMULATED SAR CO-ORDINATION |             |             |
| THURSDAY<br>28.8.86  | SIMULATED SAR CO-ORDINATION |                             |             |             |
| FRIDAY<br>29.8.86    | END OF COURSE               |                             |             |             |
|                      |                             |                             |             |             |

NAME: \_\_\_\_\_

COUNTRY: \_\_\_\_\_

SEARCH AND RESCUE MISSION COORDINATION (SMC) COURSE

QUESTIONNAIRE

FOR

FINAL COURSE EVALUATION

- I. OBJECTIVES
- II. CURRICULUM DESIGN
- III. COURSE CONDUCT
- IV. ADMINISTRATION AND MANAGEMENT
- V. TRAINING OUTCOMES

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)



I. OBJECTIVES

(1) To what extent were you aware of the objectives of this training program before you came to Singapore?

Please circle the appropriate rating number

1                      2                      3                      4                      5  
|-----|-----|-----|-----|

Not aware  
at all

Fully Aware

(2) Please indicate whether the main objectives of the Course were

1                      2                      3                      4                      5  
|-----|-----|-----|-----|

not met

fully met

(3) In your opinion to what extent was your expectation of this Course fulfilled?

1                      2                      3                      4                      5  
|-----|-----|-----|-----|

Not fulfilled

completely  
fulfilled

\*\* For the participants who marked degree 1 or 2 of the above items on OBJECTIVES from (1) to (2) ;

We would like you to give us some comments

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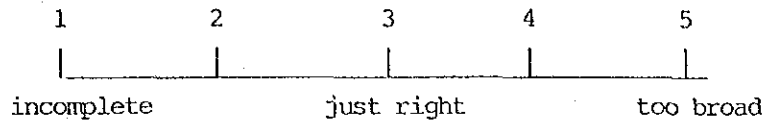
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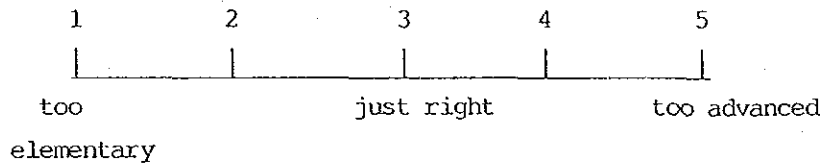
II CURRICULUM DESIGN

(1) Coverage, Level, Time Allocation, Intensity and Duration;

a) Coverage of the subjects

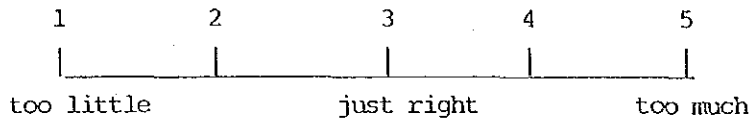


b) Level

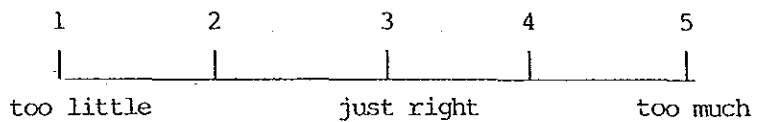


c) Time allocation to:

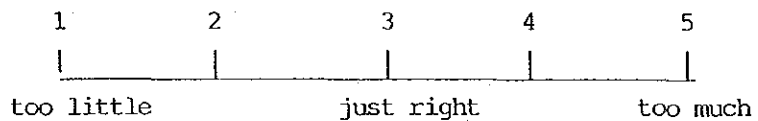
Lectures



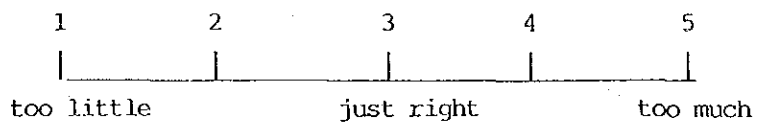
Discussions



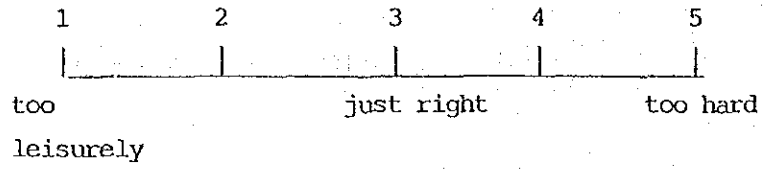
Exercises (Practical Training)



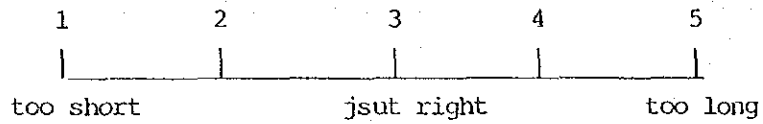
Observations



d) Intensity



e) Duration



\* Please comment, if you have any.

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(2) Programming of the Topics

Do you think that the topics were programmed systematically?  
If you do not, please give us your suggestin to improve the  
training much better.

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(3) THE MOST OR THE LEAST VALUABLE TOPICS

a) What do you think are the two (2) most interesting and beneficial topics in the training program?

1)

2)

b) What do you think are the two (2) least interesting and beneficial topics in the training program?

1)

2)

Please comment, if you have any.

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III COURSE CONDUCT

(1) TEACHING METHOD

Evaluate the teaching method of each topic or subject matter by the scale below. Please fill the checklist on next page with the number that approximate your opinion

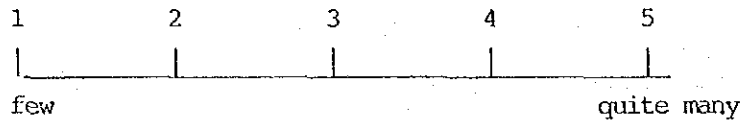
Scale

|              |      |      |              |                   |
|--------------|------|------|--------------|-------------------|
| 1            | 2    | 3    | 4            | 5                 |
|              |      |      |              |                   |
| VERY<br>POOR | POOR | GOOD | VERY<br>GOOD | OUT -<br>STANDING |

| CHECK POINT<br>TOPICS OR<br>SUBJECT MATTERS       | Method of instruction and presentation | Communication Language | Trainers Involvement and participation | Quality and quantity of training materials | Quality and quantity of training facilities | Total Evaluation |
|---------------------------------------------------|----------------------------------------|------------------------|----------------------------------------|--------------------------------------------|---------------------------------------------|------------------|
| Search and Rescue (SAR) Organization              |                                        |                        |                                        |                                            |                                             |                  |
| SAR organization and operation in Japan           |                                        |                        |                                        |                                            |                                             |                  |
| SAR phase actions                                 |                                        |                        |                                        |                                            |                                             |                  |
| Japanese maritime support to aeronautical SAR     |                                        |                        |                                        |                                            |                                             |                  |
| MET information for SAR                           |                                        |                        |                                        |                                            |                                             |                  |
| Determination of search area                      |                                        |                        |                                        |                                            |                                             |                  |
| Search area coverage                              |                                        |                        |                                        |                                            |                                             |                  |
| Air search patterns                               |                                        |                        |                                        |                                            |                                             |                  |
| Description of search area                        |                                        |                        |                                        |                                            |                                             |                  |
| Conduct of search                                 |                                        |                        |                                        |                                            |                                             |                  |
| Merchant shipping SAR capabilities and facilities |                                        |                        |                                        |                                            |                                             |                  |
| SAR Communications                                |                                        |                        |                                        |                                            |                                             |                  |
| Supply and supply drop                            |                                        |                        |                                        |                                            |                                             |                  |
| Rescue of survivors                               |                                        |                        |                                        |                                            |                                             |                  |
| Simulated SAR coordination                        |                                        |                        |                                        |                                            |                                             |                  |
| Visit to SAR facilities                           |                                        |                        |                                        |                                            |                                             |                  |

(2) Application of techniques and knowledge

Do you think that you will have chance to make good use of the techniques and knowledge you have attained in this Course in your country?



For the participants who marked degree 1 or 2 of the above items on TRAINING OUTCOMES

Please give us some comments

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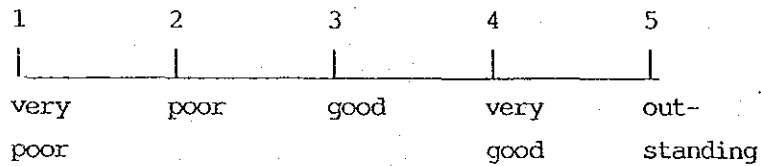
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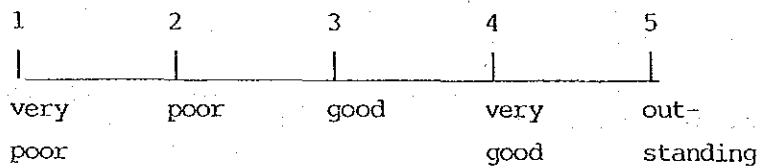
IV ADMINISTRATION AND MANAGEMENT

How would you describe the general administration and management of the Course?

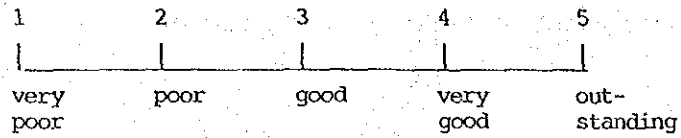
a) Coordination for course conduct;



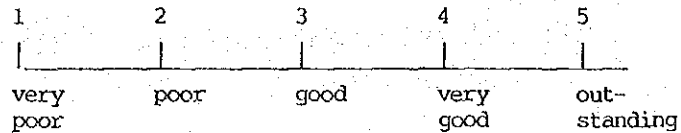
b) Pre-course information (G.I., Briefing and Orientation)



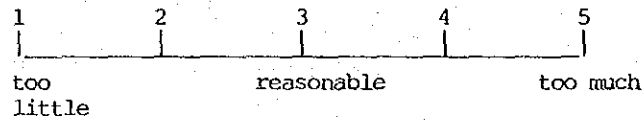
c) Arrangements for observation trips



d) Housing and food accommodations



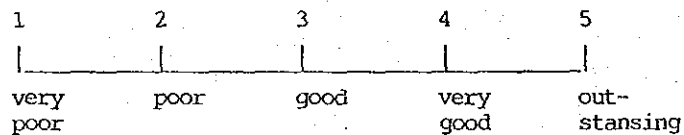
e) Allowance



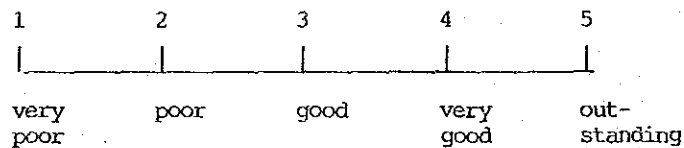
f) Transportation



g) Social Program



h) Communication among the Participants



\* Please comment, if you have any.

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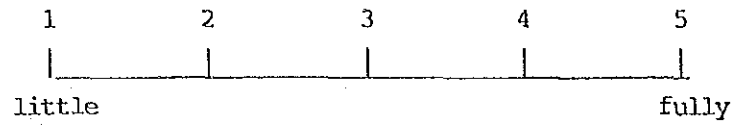
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V TRAINING OUTCOMES

(1) Attainment of technique and knowledge



- oo oo oo -





**Civil Aviation Training Centre**  
Republic of Singapore

*This Certificate*

is issued to

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for having attended  
a           -week course in

---

comprising the following subjects

Training Centre Superintendent

Director-General of Civil Aviation  
Civil Aviation Authority of Singapore

Date:

※本コースは試験を実施しており、試験に不合格の者には4(1)のCertificateを、合格者には4(2)が授与される。



**Civil Aviation Training Centre**  
Republic of Singapore

*This Certificate*

is issued to

---

for having successfully completed

a \_\_\_\_\_-week course in

---

comprising the following subjects

Training Centre Superintendent

Director-General of Civil Aviation  
Civil Aviation Authority of Singapore

Date:







JICA