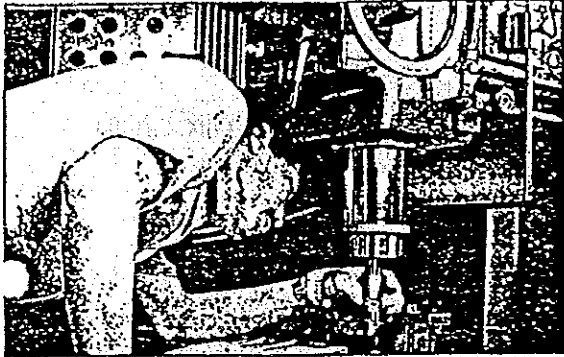
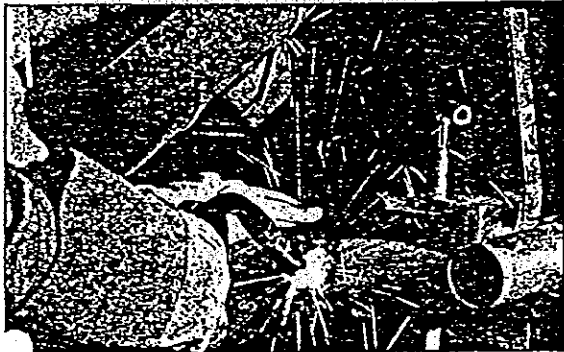


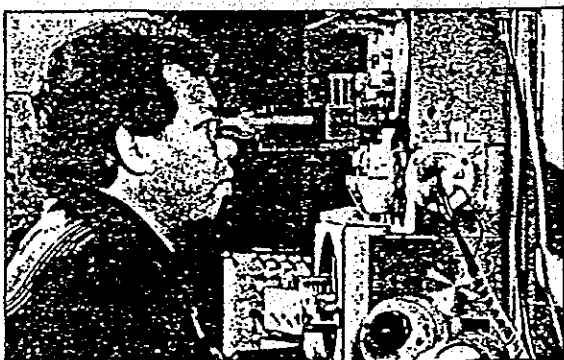
## A GLIMPSE OF MITEC



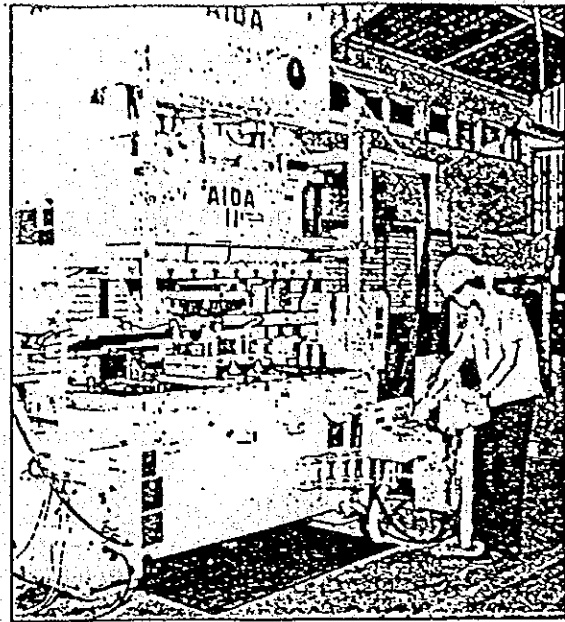
1. Dimensional accuracy checking after jig-boring at the Die-making workshop.



3. MIG welding in progress.



5. Operating the Electron Probe Micro Analyser.



2. Operating the progressive washer die at the presswork workshop.



4. Tank top view of the Electroplating workshop.



6. Information Management using the Micro Computer.

## COURSE CURRICULUMS

## APPENDIX I

### WELDING TECHNOLOGY

- Perspective of Welding Technology – Study of welding systems, performance and applications.
- Safety and Health in Welding Production.
- Shielded Metal Arc Welding (SMAW) – Techniques and skill development.
- Properties and Selection of SMAW Consummables
- SMAW/Gravity Welding – Operation technique and application.
- CO<sub>2</sub> Welding – Technique and skill development.
- MIG Welding – Technique and application.
- TIG Welding – Technique and application.
- Submerged Arc Welding – Technique and application.
- Resistance Spot/Seam Welding – Technique and application.
- Electroslag Welding – Operation techniques and application.
- Fuel Gas Welding and Brazing.
- Plasma Cutting, Arc Gouging – Application in welding fabrication.
- Welding Consummables for GMAW, GTAW, SAW and ESW Processes.
- Costing and Estimation for Welding Products.
- Welding Economics.
- Welding Metallurgy.
- Welding Inspection – Defects identification, QC by NDT and DT methods. Causes and corrective actions for welding quality control.
- Welding Design – Selection and design of welding joints, application in engineering fabrication.
- Technology Development and New Welding Process.
- Welding Procedure and Performance Qualification.

## ELECTROPLATING TECHNOLOGY

- Outline of electroplating plants set-ups, equipment and types with respect to processes.
- General outline of metal finishing particularly the electroplating field with respect to its industrial, decorative and functional applications.
- Metallurgical characteristics of various base materials for electroplating.
- Pre-treatment → mechanical, chemical and electrochemical methods.
- Buffing and its materials — selection to process, materials, machines and the proper techniques.
- Copper plating.
- Nickel plating.
- Decorative and industrial chromium plating.
- Zinc plating.
- Tin, silver and gold plating for decorative and industrial parts.
- Factory visits and in-plant training.
- Jigging techniques — design and fabrication.
- Mathematics in electroplating.
- Safety aspects of electroplating.
- Quality control in electroplating — analysis (qualitative and quantitative), testing, trouble-shooting.
- Plating on plastics — for decorative and industrial parts.
- Anodizing and colouring of aluminium.
- Modern waste water treatment — lectures and demonstration.
- Surface hardening methods by heat treatment.
- Enamelling techniques.
- Stripping of plated layer — to salvage defective plated parts.
- Business management — production and financial control, marketing techniques and human relation.
- Quality control, QC circles and quality management.
- Present trends and technology in electroplating.
- General outline of guide to/for electroplating.
- Electroplating inspection/specifications.

## COURSE ACTIVITIES FOR WELDING TECHNOLOGY COURSE AND ELECTROPLATING TECHNOLOGY COURSE

1. Opening ceremony.
2. General activities
  - Orientation to the courses
  - Observation of MITEC's functions and activities
  - Consultation sessions
3. Classroom lectures, practicals and demonstration
  - General topics
  - Specialized topics
  - Advanced topics
4. Field trips
  - Factory visits
5. Report presentation.
6. Closing ceremony.

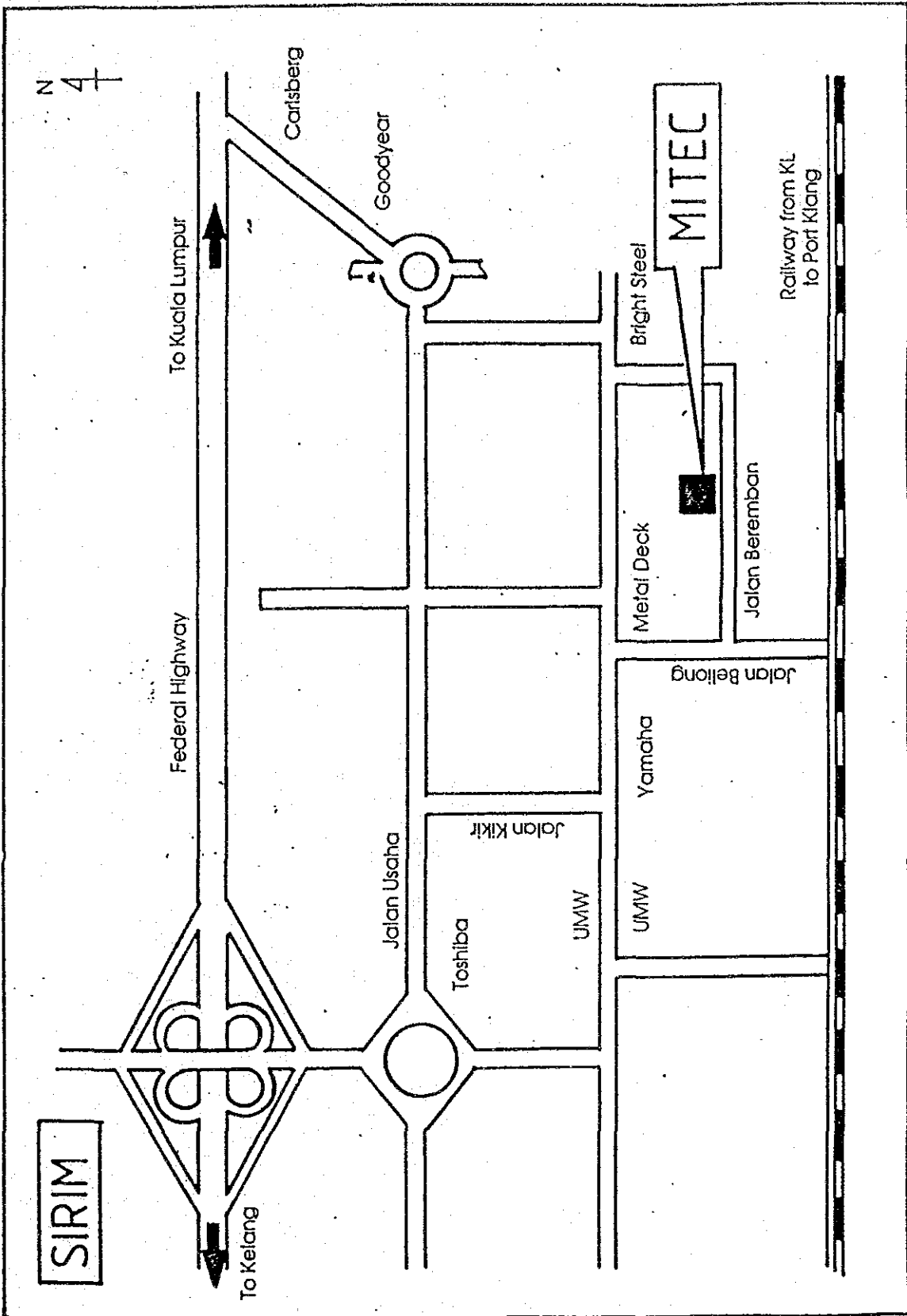
# WELDING TECHNOLOGY COURSE SCHEDULE

Appendix III

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Jan 6-12	Opening ceremony.	Perspective of welding technology.	Shielded metal arc welding			Gravity welding	Free
	Briefing on MITEC and metal industry in Malaysia.	Safety and health in welding products.					
Jan 13-19	CO <sub>2</sub> MAG & MIG welding.		Welding consumables	TIG welding.	Submerged arc welding.	Flux cored arc welding.	Free
	Welding of metals						
	Electroslag welding	Gas welding, brazing, soldering.	Plasma cutting and arc gouging	Resistance spot and seam welding.	Technology developments.		
Jan 20-26	Welding Inspection						Free
	(Identification)	(Visual)	(NDT)	(DT)	(Codes Application)		
Jan 27 - Feb 2	Welding economics & management (Production & financial & marketing)		Welding design.		Welding Metallurgy		FREE
	Weld costing (estimation)	Technology Developments.		In-plant visit.	Free		
Feb 3-8	In-plant visit.	In-plant visit.	Test and presentation of project paper.	Preparation and presentation of report.		Closing ceremony	Leaving Kuala Lumpur

## ELECTROPLATING TECHNOLOGY COURSE SCHEDULE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Jan 6-12	Opening ceremony Briefing on MITEC and metal industry in Malaysia.	Plating plant set-up. Outline of metal finishing.	Metallurgical characteristics of various base materials. Pre-treatment and buffing.	Copper and nickel plating. Decorative and industrial chromium plating.	Tin, silver, gold and zinc plating for decorative and industrial parts.	Factory visits.  Free	FREE
Jan 13-19	Mechanical polishing and jigging technique. Practical: fabrication of jigs.	Practical: fabrication of jigs. Mathematics and safety in electroplating.	Electroplating practice.	Electroplating practice.	Quality Control in electroplating — analysis, testing, troubleshooting, etc.	Free	Free
Jan 20-26	Plating on plastics — for decorative and industrial parts.	Plating on plastics — demonstration/practices.	Anodizing and colouring of aluminium.	Factory visits.	Modern waste effluent treatment.	Demonstration of waste effluent treatment. Free	Free
Jan 27 — Feb 2	Surface hardening and enamelling techniques. Stripping of plated layers.	Business management — production and financial control, marketing techniques and human relations.	Slide shows/talks on quality control, QC	Present trends and technology in electroplating — alloy plating, CVD, PVD, etc.	General outline of guide for electroplating — for design and development of products. Discussions.	Field study tour. Free	Free
Feb 3-8	Field study tour.	Field study tour.	Electroplating inspections/specifications.	Final report writing	Presentation of final report and evaluation.	Certificate presentation and closing ceremony.	Leaving Kuala Lumpur







## 9. フィリピン道路交通工学第三国研修G・I



THIRD COUNTRY TRAINING PROGRAMME  
IN THE FIELD OF TRANSPORTATION & TRAFFIC

A SENIOR COURSE ON  
TRANSPORT TECHNOLOGY  
(ASCOTT)

NOV. 11 - DEC. 20, 1985  
Transport Training Center  
University of the Philippines  
PHILIPPINES

\*\*\* GENERAL INFORMATION \*\*\*

Sponsored by

THE GOVERNMENT OF THE REPUBLIC OF THE  
PHILIPPINES WITH THE TECHNICAL COOPERATION  
OF THE GOVERNMENT OF JAPAN

**A SENIOR COURSE ON TRANSPORT TECHNOLOGY**  
**Third Country Training Programme**  
**in the Field of Transportation and Traffic**

**11 November – 20 December 1985**

**GENERAL INFORMATION**

**1. BACKGROUND**

This group training course entitled "A Senior Course on Transport Technology" (ASCOTT), (hereinafter referred to as the "Course"), is the fourth course offering of the Transport Training Center (TTC) under its Third Country Training Programme (TCTP) in the field of transportation and traffic. The TCTP is a project of the Government of the Republic of the Philippines and supported by the technical cooperation scheme of the Government of Japan through the Japan International Cooperation Agency (JICA). This project was formalized in the Record of Discussions between the Japanese Consultation Team and the TTC Advisory Committee on 8 October 1981.

The TCTP was launched in an introductory seminar entitled "Seminar on Road Transport in Asian Countries" (SORTAC) which was held on 7-20 March 1982 at the TTC. The SORTAC delegates coming from six Asian countries not only assessed the role of training and education in the pursuit of providing better transportation systems but also identified appropriate subject areas or fields of study for future training programs under TCTP. The recommendations of SORTAC formed the basis for the design of the ASCOTT program.

The first ASCOTT was conducted at the TTC from 7 November to 19 December 1982. It was attended by 21 participants from Indonesia, Singapore, Sri Lanka, Thailand and the Philippines. To date, a total of 59 participants from these countries, and from Brunei and Malaysia, have already attended the Course.

## 2. OBJECTIVE

To meet the common complex transport problems caused by accelerated urban development and growth in various Asian countries, there exists an urgent need for trained professionals in transportation, particularly in urban transportation/traffic planning, engineering and management. The TCTP project is intended to provide a venue where transfer of knowledge and techniques in transportation and traffic may be effected to various Asian countries.

The Course aims to provide participants with a comprehensive, theoretical and practical training in transport technology, in order to contribute to further development of transportation and traffic in each participating country.

## 3. DURATION

The Course will be conducted for a six-week duration from 11 November to 20 December 1985.

## 4. LANGUAGE

The Course will be conducted in English.

## 5. FACILITIES & INSTITUTION

The Course will be held at the:

Transport Training Center  
University of the Philippines  
Diliman, Quezon City  
Philippines

## 6. COURSE OPTIONS

The Course offers the following two (2) options:

- a) Transportation Planning
- b) Traffic Engineering and Management

## 7. CURRICULUM

The curriculum of the Course is shown in Appendix I.

## 8. ACTIVITIES

The activities of the Course will include classroom lectures, field observations, workshops and country reports; to be supplemented with some special lectures and observation tours in Metro Manila and other cities.

## 9. PARTICIPATING COUNTRIES

The countries invited to nominate candidates are Bangladesh, Brunei, Indonesia, Malaysia, Papua New Guinea, Singapore, Sri Lanka, Thailand, and the Philippines.

## 10. NUMBER OF PARTICIPANTS

Each country is invited to nominate one principal participant and one alternate participant for each of the course options indicated in Item 6, for a total of four (4) nominees per country. Since the total number of participants to the Course from the above-mentioned countries is twenty-one (21), the vacant slots will be filled up by the alternates.

## 11. QUALIFICATIONS OF APPLICANTS

To be eligible for admission, the applicants should:

- a) be nominated by their respective governments in accordance with the procedures for application,
- b) hold a bachelor of science degree or its equivalent,
- c) be middle-management technical officials in government organizations engaged in transportation planning and/or traffic engineering and management with occupational experience of not less than five (5) years,
- d) be between 30 to 50 years old,
- e) have a sufficient command of spoken and written English, and
- f) be in good health, both physically and mentally, to participate in the Course.

## 12. PROCEDURE FOR APPLICATION

The governments desiring to nominate applicants for the Course should complete three (3) copies of the Application Form A.2-3 (Colombo Plan for Technical Cooperation application forms which may be secured from the Philippine Embassy) for each applicant and forward them to the Government of the Republic of the Philippines through the normal diplomatic channel not later than 31 July 1985.

The Government of the Republic of the Philippines will inform the applying government whether or not the nominees are accepted to the Course not later than 30 August 1985.

## 13. ALLOWANCES AND EXPENSES

The Government of Japan will bear the following expenses:

- a) economy class round-tripticket between the international airport designated by JICA and the Manila International Airport (for non-Filipino participants),
- b) domestic travel costs during the observation tours, and
- c) living allowance in pesos at the rate of US \$35.00 per diem covering accommodation charge, food and daily expenses (for non-Filipino participants), which shall be given on the first day of the course.

The living allowance paid by the Government of Japan is sufficient only to cover normal living expenses of the participant. No allowance of any kind will be paid for their accompanying dependents.

## 14. ACCOMMODATION

Participants to the Course will stay at the:

Philippine Center for Economic Development  
(PCED) Hostel  
P.O. Box 111  
UP Diliman, Quezon City 3004  
Philippines  
Tel. No. 98-96-86 Local 298

## 15. CERTIFICATE

Participants who have successfully completed the Course will be awarded a Certificate of Participation by TTC.

## 16. PRESENTATION OF PAPER

Participants from each country are required to prepare a country report on the theme "Transportation Systems Management in Urban Areas" which will be presented during the workshop sessions. Suggested outline of the contents of the country report may be found in Appendix II. The country report must be about 10,000 words or 20 pages long. Manuscripts, type-written and double-spaced, must be submitted to TTC not later than 31 October 1985 for printing. Participants are urged to bring relevant maps/slides and project reports for the benefit of the their co-participants.

## 17. OTHER INFORMATION

- a) ASCOTT participants should arrive in the Philippines on the date designated by JICA through the air-tickets sent to the participants.
- b) Participants shall assume responsibility for all other expenses incurred during travel between their home country and Manila.
- c) Participants shall make their own arrangements for any financial matter of private nature not provided for by JICA such as airport tax and excess baggage charge.
- d) Upon arrival at the Manila International Airport, participants will be met by a representative of TTC who shall bring them to the place of accommodation (PCED).
- e) Participants are requested to observe strictly the schedule of the Course.
- f) Any request to change or alter the curriculum or to extend the duration of the Course will not be entertained.



- g) For administrative purposes, participants are requested to bring four (4) copies of their recent passport-size photograph (5 cm. x 5 cm.).
- h) Further information concerning ASCOTT is available at the following address:

The Director  
Transport Training Center  
University of the Philippines  
Diliman, Quezon City 3004  
Philippines  
Tel. Nos. 97-56-64; 97-60-61 Local 258

## APPENDIX I

### COURSE CURRICULUM

#### SUBJECTS COMMON TO BOTH COURSES

**Traffic Flow Theory.** Human, vehicle and traffic flow characteristics.

**Transportation Systems Management.** Transportation systems management planning process, transportation systems management measures, measures of effectiveness.

**Transportation Project Evaluation.** Financial analysis, economic evaluation, environmental impact assessment, multi-criteria evaluation methods.

#### SUBJECTS FOR TRANSPORTATION PLANNING COURSE

**Travel Demand Forecasting.** Forecasting planning parameters, land use forecasts, forecasting models, freight traffic forecasting.

**Road Network Planning.** Road network elements, network analysis, road network planning process.

**Public Transportation Planning.** Public transportation problems and issues, analysis of public transportation lines, fare structure, public transportation network planning, locations of public transportation terminals/turning points, operational evaluation, financial evaluation of public transportation operations.

**Planning of Facilities.** Terminal facilities, pedestrian facilities, parking facilities, bicycle lanes, facility access points/trip generation.

## SUBJECTS FOR TRAFFIC ENGINEERING AND MANAGEMENT COURSE

**Traffic Flow Analysis.** Queueing analysis, shock wave analysis, highway capacity analysis, analysis of congestion, route assignment.

**Traffic Accident Studies.** Accident data reporting and filing, accident analysis, identification of contributory factors, remedial measures.

**Intersection Design and Control.** Intersection flow analysis (including roundabouts and interchanges), design procedure, geometric design of at-grade intersections, intersection control (signalized and unsignalized), traffic signals (isolated and coordinated).

**Road Facilities.** Traffic signs and markings, safety facilities, loading/unloading facilities, pedestrian overpasses/underpasses, bikeways, street lighting facilities.

**Road Operation and Control.** Traffic control elements, traffic control measures and evaluation, traffic enforcement.

## APPENDIX II

### SUGGESTED OUTLINE OF COUNTRY REPORTS

**TITLE: Transportation Systems Management in (Urban Area)**

[N.B. It is suggested that the report concentrate on transportation systems management (integrated urban traffic management) measures that have been implemented in an urban area in the country.]

1. Introduction

This section should give an overview of the general characteristics of the urban area, which shall include among others the geographic location, physical characteristics, population, and travel patterns.

2. Problems in the Existing Transportation System

This section should discuss the existing problems encountered in the transportation system prior to the implementation of the TSM measures (such as problems on mobility/accessibility, environment, safety, energy utilization).

3. TSM Options

This section should cover the different TSM measures considered for implementation to solve the problems previously identified.

4. Selection of TSM Measures

This section should discuss the criteria considered in the selection of TSM measures.

5. Implementation of TSM Measures

This section should discuss the strategy used and the problems encountered in the implementation of the TSM measures.

6. Evaluation of TSM Measures

This section should discuss the measure of effectiveness used to assess the success/failure of the TSM measures.

## APPENDIX II-A

### SHORT DESCRIPTION OF TRANSPORTATION SYSTEMS MANAGEMENT

In broad terms, transportation systems management, otherwise known as integrated urban traffic management, is a process which not only reinforce/complement traditional transportation planning and traffic engineering but also focus on the comprehensive objectives of mobility, safety, energy, efficiency and the environment through the application of scientific methods based on the principles of systems engineering and planning.

Specifically, it can be considered as an activity which concentrates on measures directed at the alleviation of the symptoms of transportation problems rather than the treatment of root causes. The solutions, therefore, are implemented in the short-term, rather than long-term measures.

The tools, actions and devices which are regarded as the transportation systems management measures share some common characteristics:

1. They tend to be relatively short-term and low-cost measures. These measures are generally quickly implemented, usually within a period of one to three years for planning and implementation.
2. A package of complementary measures is implemented to offset the inherent disadvantages of each measure when used individually.
3. These short-term measures are immediate responses to the problems with long-term measures requiring more capital investment considered to complement them.
4. These measures respond to the local conditions and are in line with national policies and strategies.

These TSM measures, among others, can be any or all of the following:

1. Traffic restrictions (e.g. road closure, vehicle ban)
2. Traffic restraints (e.g. road pricing, parking charges)
3. Fiscal measures (e.g. vehicle registration, fuel tax)
4. Incentives (e.g. work rescheduling, subsidized fare)
5. Improvement of transit services
6. Provision of pedestrian and cycle facilities
7. Paratransit services
8. Traffic engineering and management measures

10. シンガポール建設プロジェクト管理  
第三国研修G・I





THIRD COUNTRY TRAINING PROGRAMME  
IN THE FIELD OF BUILDING CONSTRUCTION

A REGIONAL  
TRAINING COURSE  
IN  
BUILDING CONSTRUCTION  
PROJECT MANAGEMENT

MARCH 25 — APRIL 6, 1985  
SINGAPORE

\*\*\*GENERAL INFORMATION\*\*\*

*Sponsored by*  
THE GOVERNMENT OF SINGAPORE WITH  
THE TECHNICAL COOPERATION OF THE  
GOVERNMENT OF JAPAN

# A REGIONAL TRAINING COURSE IN BUILDING CONSTRUCTION PROJECT MANAGEMENT

Third Country Training Programme in the Field of  
Building Construction

25 March – 6 April 1985

## GENERAL INFORMATION

### 1. BACKGROUND

This group training course entitled "A" Regional Training Course in Building Construction Project Management" will be conducted jointly by the Government of Singapore and the Government of Japan as part of its Technical Cooperation Programme.

Arrangements for conducting the course are made by the Civil Engineering and Building Department of the Singapore Polytechnic (SP) in collaboration with the Japan International Cooperation Agency (JICA).

### 2. OBJECTIVE

The accelerated economic progress of nations in the Asean region has caused an instant sprouting of massive construction projects. To meet the growing complexity of such developments, there exists a pressing need for trained professionals in building construction, particularly in construction management. The group training project is intended to provide a venue where transfer of knowledge and techniques in construction management may be effected to various Asean countries.

The purpose of the Course is to provide participants with a comprehensive theoretical and practical training in construction management. The Course aims to merge both business skill with professional competence of the participants and seeks to contribute to further development of building construction in each participating country.

### 3. DURATION

The Course will be conducted for a two-week duration from 25 March to 6 April 1985.

### 4. LANGUAGE

The Course will be conducted in English.

### 5. VENUE & FACILITIES

The Course will be held at the:

**HOTEL EQUATORIAL SINGAPORE**  
429, Bukit Timah Road  
Singapore 1025  
Telephone: 7320431  
Cable: "EQUATORIAL"  
Telex: EQUATOR RS 21578

### 6. COURSE STRUCTURE

The course is designed to be delivered in four modules:

- a) Decision Making Models
- b) Construction Planning & Control Procedure
- c) Modern Construction Technology
- d) Business Organisation of Building Contracting Firms.

The tentative Curriculum of the Course is shown in Appendix I.

## 7. COURSE ACTIVITIES AND SCHEDULE

The list and schedule of activities of the Course are shown in Appendix II and Appendix III, respectively.

## 8. PARTICIPATING COUNTRIES

The countries invited to nominate participants are as follows: Brunei, Indonesia, Malaysia, Singapore, Thailand, and Philippines.

## 9. NUMBER OF PARTICIPANTS

Each country is invited to nominate four (4) participants. The total number of participants from the countries specified will be limited to only twenty-two (22).

## 10. QUALIFICATIONS OF PARTICIPANTS

To be eligible for admission, participants should:

- a) have a degree in Architecture, Building or Civil Engineering;
- b) be engaged in building construction project management in the public or private general construction organisation;
- c) have at least five (5) years of occupational experience;
- d) have a good command of spoken and written English;
- e) be more than twenty-five (25) years of age; and
- f) be in good health to participate and complete the course.

## 11. PROCEDURES FOR APPLICATION

The governments desiring to nominate participants for the Course should submit eight (8) copies of the application form (Form A 2-3) for each applicant and forward them to the Government of the Republic of Singapore through the Embassy of the Republic of Singapore in their respective countries not later than February 1 1985.

The Government of the Republic of Singapore will inform the applying government whether or not the nominee is accepted to the Course not later than February 28, 1985.

## 12. ALLOWANCES AND EXPENSES (foreign participants only)

The Government of Japan will bear the following expenses:

- a) Economy class round-trip between the international airport designated by JICA and the Singapore Changi International Airport for foreign participants,
- b) Domestic travel costs during the observation tours, and
- c) Living allowance in sing-dollar at the rate of US\$20.00 (S\$46.00) per diem covering food and daily expenses for foreign participants.

## 13. ACCOMMODATIONS

All participants will be housed in:

**HOTEL EQUATORIAL SINGAPORE**

429, Bukit Timah Road

Singapore 1025

Telephone: 7320431

Cable: "EQUATORIAL"

Telex: EQUATOR RS 21578

## 14. CERTIFICATE

Participants who have successfully completed the Course will be awarded a Certificate of Participation by Singapore Polytechnic.

## 15. COUNTRY REPORT AND WORKSHOP

Participants are required to prepare a Country Report which shall be presented during the workshop sessions. The report shall be accompanied by architectural drawings and contract documents for the benefit of the other co-participants. This report may be presented jointly with other participants from the same country.

The Country Reports should conform to the format outlined in Appendix IV.

## 16. OTHER INFORMATION

- a) Participants are requested to arrive in Singapore on the date designated by Singapore Polytechnic (SP) and JICA after the confirmation of acceptance. However, the date will also be confirmed by JICA through the air-ticket sent to the participants.
- b) Participants shall assume responsibility for all other expenses incurred during travel between their home country and Singapore.
- c) Participants shall make their own arrangements for any financial matter of private nature not provided for by JICA such as airport tax and excess baggage charge.
- d) Upon arrival at the Singapore Changi International Airport, participants will be met by a representative of SP, who shall bring them to the place of accommodation. Thereafter, supervision of the participants will be assumed by SP throughout the duration of the Course.
- e) Participants are requested to observe strictly the schedule of the Course.

- f) Any application to change or alter the curriculum or to extend the duration of the Course will not be entertained.
- g) Participants are requested not to bring any member of their families. The living allowance paid by the Government of Japan is sufficient only to cover normal living expenses for one person. No allowance of any kind will be paid for their dependents.
- h) For administrative purposes, participants are requested to bring four (4) copies of their recent passport-sized photograph (5 cm. x 5 cm.).
- i) Participants are requested to follow the return trip schedule designated by SP and JICA.
- j) Participants are requested to secure overseas travel insurance at their own expense before departure from their home countries.
- k) Further information concerning the Course is available at the following address:

**COURSE MANAGER  
(THIRD COUNTRY TRAINING PROGRAMME)  
CIVIL ENGINEERING & BUILDING DEPT  
SINGAPORE POLYTECHNIC  
Dover Road  
Singapore 0513  
Republic of Singapore  
Tel: 775-1133 ext. 173 or 322  
Telex: SINPOL RS 50208**

## APPENDIX I

### Tentative curriculum of the Course

#### *Decision Making Models*

- Inventory Model
- Assignment Problem
- Transportation Network Planning
- Line of Balance Method
- Trend Analysis
- Risk Analysis

#### *Construction Planning & Cost Control*

- Pre-tender Planning
- Contract Planning (CPM & PERT)
- Cost Planning
- Computer Application
- Resource Planning & Allocation
- Site Layout
- Site Safety
- Management Information System

#### *Construction Technology*

- Modular Co-ordination & Standardisation
- Prefabrication
- Technology Transfer by Developed Nations

#### *Business Organisation*

- Financial Reporting
- Financial Statement Analysis
- Organisation Division & Performance Appraisal
- Q. C. Circle (Work Improvement)



## APPENDIX II

### COURSE ACTIVITIES

1. Opening Ceremonies
2. General Activities
  - \* Orientation to the Course
  - \* Course Modules
  - \* Consultation Sessions
3. Classroom Lectures by Local and Japanese experts
  - \* Group Discussion
  - \* Cases
4. Special Lectures by Local and Japanese experts
5. Observation Tours
  - \* Construction Sites
  - \* Computer Usage
  - \* Film Shows
6. Workshop/Country Report Presentation
7. Closing Ceremonies

## APPENDIX III

### Suggested Outline of Country Reports

Title: The State of Construction Practice in (Country)

#### 1.0 *Background*

- 1.1 Introduction
- 1.2 Factors affecting growth and development of key cities.
- 1.3 Socio economic profile of the capital city
- 1.4 Construction Trends and Statistics.
- 1.5 Real Estate Developments.

#### 2.0 *Construction Practice*

- 2.1 Characteristics of public and private construction practice with respect to responsibilities of design and construction of buildings.
- 2.2 Type of contracts being used including conditions of contracts.

#### 3.0 *Construction Project Management*

- 3.1 Site Organisation
  - 3.1.1 Relationship between site personnels and corresponding responsibilities.
- 3.2 Contract Planning
  - 3.2.1 Methods commonly adopted.
  - 3.2.2 Risk management e.g. inclement weather, shortage of material or labour supply, etc.
- 3.3 Site layout
  - 3.3.1 Logistic management within restricted sites and sites in the urban centre to avoid traffic congestion.

### 3.4 The Construction Process

- 3.4.1 Flow of information among site personnels.
- 3.4.2 Requisition of materials supply
- 3.4.3 Control of construction period and quality of work.
- 3.4.4 Labour management on site and incentives to higher productivity.
- 3.4.5 Coordination of own and nominated sub-contractors.
- 3.4.6 Controlling wastage of materials on site.
- 3.4.7 Safety consciousness on site.

### 4.0 *Construction Project Finance*

- 4.1 Cash flow analysis
- 4.2 Cost control
- 4.3 Cost information and Statistics.

#### **Class Presentation – Project completed**

Participants from each country will be required to put up detailed study of any (significant) project which has been completed. The presentation should include an assessment of the management techniques utilised including all construction difficulties encountered.

The presentation should preferably be tailored to be delivered in space of 1½ hours (group) on the last day of the course.

**Note:** The above serves only as a guideline. Participants may wish to exercise their own initiative in relation to the format of presentation. They are requested to bring along drawings of the project, slides and all transparencies (if necessary).

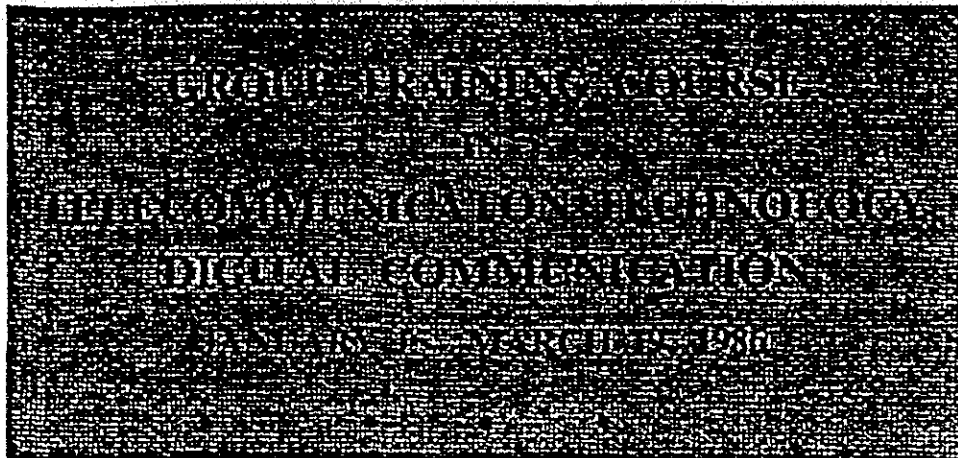


## 11. タイ電気通信第三国研修G・I



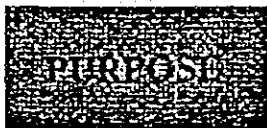
GROUP TRAINING COURSE  
IN  
TELECOMMUNICATION TECHNOLOGY  
DIGITAL COMMUNICATION  
JANUARY 15 - MARCH 19, 1986

OFFERED JOINTLY BY  
THE ROYAL THAI GOVERNMENT  
AND  
THE GOVERNMENT OF JAPAN



The Group Training Course in Telecommunication Technology with special emphasis on digital communication will be conducted jointly by the Royal Thai Government and the Government of Japan as part of its Technical Cooperation Programme.

The course arrangements are made by the Department of Technical and Economic Cooperation (DTEC) and the Japan International Cooperation Agency (JICA) in collaboration with the King Mongkut's Institute of Technology Ladkrabang Campus (KMITL) and other related organizations in Thailand.



The purpose of this course is to provide participants with comprehensive theoretical and practical training in telecommunication technology so that participants will be able to acquire sufficient knowledge in this field.



## QUALIFICATIONS

Applicants should:

- (1) be nominated by their governments in line with Procedures for Application;
- (2) have completed, at least, the associate degree or diploma in science or engineering or equivalent;
- (3) have sufficient command of spoken and written English;
- (4) be under forty-five (45) years of age;
- (5) have appropriate physical fitness;
- (6) have at least three years working experience in telecommunication field.

## DURATION

9 (nine) weeks from January 15-March 19, 1986.

## LANGUAGE

The course will be conducted in English.

## INSTITUTION

The course will be conducted by:  
Faculty of Engineering  
Ladkrabang Campus

King Mongkut's Institute of Technology  
Bangkok 10520, Thailand.  
TELEX : 84967 ENGLAKB TH

### REQUIREMENTS FOR APPLICATION

- (1) A government desiring to nominate an applicant for the course should fill in and forward three (3) copies of the Nomination Form for each applicant to the Government of Thailand through the Royal Thai Embassy or Consular Representative in their countries or send directly to the Thai Aid Programme, Department of Technical and Economic Cooperation, 962 Krung Kasem Road, Bangkok 10100, THAILAND, not later than December 15, 1985. For the convenience in accommodation arrangement, it is recommended to nominate in even number.
- (2) the Royal Thai Government, after consulting with the Government of Japan, will inform the applying governments whether the nominees are acceptable in the course not later than December 30, 1985.

### ALLOWANCE AND EXPENSES

The following allowance and expenses will be borne by the Royal Thai Government and the Government of Japan :

- (1) Economy class round trip air ticket to and from the international airport designated by DTEC and Bangkok will be borne by the Royal Thai Government. One way air ticket will be sent to the applicant in advance by the representative of the Thai International Airline in the participant's country. A return air ticket will be issued to each participant prior to the course completion. Those who buy the air tickets by themselves should take their own FULL RESPONSIBILITY, the expense of which could not be reimbursed from the Royal Thai Government.
- (2) Living allowance at the rate of ฿ 600 per day (equivalent to US \$ 23) will be paid to the participant when arriving Bangkok. This living allowance is to cover board and lodging, local transportation and other personal daily expenses. However, each participant is suggested to have a pocket money for a few day expenses prior to the allowance paid by the Government of Thailand.
- (3) In accordance with relevant regulations. Free medical treatment will be provided for participant who becomes ill during his/her stay in Thailand.
- (4) Transportation for observation tour outside Bangkok will be provided by the Government of Thailand for authorized study tours in Thailand.

[REDACTED]

The following facilities will be provided by the Royal Thai Government through the Department of Technical and Economic Cooperation :—

- (1) Arrangements for the training programme;
- (2) Tax clearance including the arrangements for the extension of the permit to stay in Thailand.
- (3) Orientations ( Briefing upon arrival );
- (4) Accommodation reservation.

[REDACTED]

Participants who successfully complete the course will have the right to receive a certificate awarded by JICA/DTEC/KMITL.

- [REDACTED]
- (1) Participants are required to arrive in Thailand on the date as designated by the DTEC after its confirmation of acceptance. However, it will be finally confirmed through the airticket sent to the participants. ( See also Allowance & Expenses item 1 )
  - (2) Participants should assume responsibility for other expenses occurred during travel between the participants' home countries and Thailand.

- (3) Participants shall make their own arrangements for any financial matters of private nature not provided for by the DTEC.
- (4) Upon arrival at Bangkok International Airport, participants will be met by a representative of the DTEC. If not, each participant must take a BUS LIMOUSINE (not a taxi) at the airport to the reserved hotel as mentioned in the Acceptance Form. The payment for this service could be reimbursed afterwards. PARTICIPANTS WHO DO NOT FOLLOW THIS SUGGESTION SHOULD TAKE THEIR OWN RESPONSIBILITY. Necessary care of the participants, thereafter, will be taken by DTEC and KMITL throughout the course duration.
- (5) Participants are required to observe strictly on the course schedule.
- (6) Application to change or alter the training subject or to extend the training period will not be accepted.
- (7) Participants are requested not to bring any member of their families. The living allowance paid by the Royal Thai Government and the Government of Japan is sufficient only to cover normal living expenses for one person. No allowance of any kind will be paid for their dependants.
- (8) For administrative arrangements, participants are requested to bring four (4) copies of their photograph attached to their Application Forms.

- (9) The Royal Thai Government and the Government of Japan will not be indemnified or liable for accident disability and loss of life resulting from participation in the programme
- (10) Further relevant information is available at the following address:—  
Thai Aid Sub-Division  
Department of Technical and Economic Cooperation (DTEC)  
962 Krung Kasem Road, Bangkok 10100  
THAILAND  
Tel. 2810552. 2821188

(11) **SPECIAL ATTENTION FOR VISAS PROCEDURES :—**

- (a) Prior to arrival to Thailand, all participants must first obtain the appropriate visas from the Royal Thai Embassy or Consular Representative in their countries;
- (b) Those, who are from countries where the Royal Thai Embassy or Consulate is not available, after having received the Royal Thai Government's Acceptance Form or an air ticket issued by the representative of Thai International Airline in their countries, should immediately telegram to DTEC at its address appears in other Information item (10) about his/her
1. Full name
  2. Nationality
  3. Passport No. with its dates of Issue and Expiration.



**A. Lectures and Laboratories**

Digital Telephone Switching System  
Telegraph, Telex and Packet Switching Systems  
Transmission System  
Telephone Outside Plant  
Computer and Its Application  
Radio Communication  
Navigational Aids  
Microwave Communication  
Optical Communication  
Television Broadcasting System  
Satellite Communication

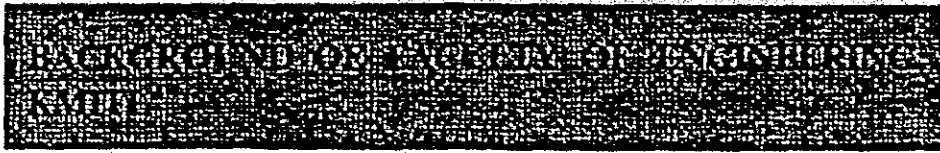
**B. Practical Projects**

**C. Study Tour and Observation Visits :—**

Telephone Organization of Thailand  
Communication Authority of Thailand  
Aeronautical Radio of Thailand  
Public Relation Department  
Television Stations  
Industries  
and others

**D. Special Lectures by Experts from Japan**

Digital Microwave Communication System  
Optical Communication System



Faculty of Engineering, King Mongkut's Institute of Technology Chaokhun Taharn Ladkrabang Campus (KMITL), has been developed from a Training Center in Telecommunication which was established in 1960 with cooperation from the Government of Japan. Through the twenty-five years cooperation from Japan, it has now become one of leading faculties of engineering in Thailand.

A group training course in telecommunication technology for participants for Asian countries was started in 1978 with joint support by the Royal Thai Government and the Government of Japan. The faculty of Engineering, KMITL, was chosen by the Department of Technical and Economic Cooperation (DTEC) of Thailand to organize this course every year, because of her long experience as a training center in telecommunication.

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## 12. タイ口蹄疫防疫（集団）第三国研修G・I



# THIRD COUNTRY TRAINING PROGRAMME

ON

## FOOT AND MOUTH DISEASE CONTROL (GROUP TRAINING COURSE)

FEBRUARY 24 - MARCH 16, 1986  
BANGKOK, THAILAND.

Jointly organised by

DEPARTMENT OF LIVESTOCK DEVELOPMENT  
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND  
AND  
THE JAPAN INTERNATIONAL COOPERATION AGENCY

# THIRD COUNTRY TRAINING PROGRAMME

ON

FOOT AND MOUTH DISEASE CONTROL  
(GROUP TRAINING COURSE)

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DEPARTMENT OF LIVESTOCK DEVELOPMENT  
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AND  
THE JAPAN INTERNATIONAL COOPERATION AGENCY

# TRAINING COURSE

## ON

### FOOT AND MOUTH DISEASE CONTROL

The Training Course on Foot and Mouth Disease Control will be jointly conducted by the Royal Thai Government and the Government of Japan as parts of their Technical Cooperation Programme. The Training Courses are Individual Training Course (ITC) and Group Training Course (GTC.)

Arrangements for conducting the Training Courses are made by the Department of Technical and Economic Cooperation (DTEC) and the Japan International Cooperation Agency (JICA) in collaboration with the Department of Livestock Development (DLD) and other related organizations in Thailand.

#### PURPOSE

The purpose of the Training Courses is to contribute to control of Foot and Mouth Disease (FMD) in Asian region.

#### QUALIFICATIONS OF APPLICANTS

Applicants for GTC should:

- (1) be nominated by their governments in accordance with procedure for application mentioned below;
- (2) be university graduates or equivalents who are presently engaged in the fields of animal disease diagnosis, production of vaccine or disease control in the government organizations with occupational experience of preferably more than five (5) years.

- (3) have sufficient command of spoken and written English, and
- (4) be in good health both physically and mentally to participate in the Training Course.

#### DURATION

GTC is 21 days from February 24, 1986 to March 16, 1986.

#### LANGUAGE

The course will be conducted in English.

#### INSTITUTION

The Training Course will be conducted by:

The Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, Thailand.

#### PROCEDURE FOR APPLICATION

(1) The government desiring to nominate a participant for the Training Course should fill in and forward three (3) copies of Nomination Form for each participant through the Royal Thai Embassy or Consulate office in their countries or send nomination forms directly to the Thai Aid Programme, Department of Technical and Economic Cooperation, 962 Krung Kasem Road, Bangkok 10100, Thailand not later than December 16, 1985.

(2) The Royal Thai Government, after consulting with the Government of Japan, will inform the applying government whether the nominees are accepted not later than December 30, 1985.

#### ALLOWANCE AND EXPENSES

Participants will be provided with the following allowance and expenses:

- (1) A round trip air-ticket (economy class) between the international airport designated by DTEC and Bangkok.
- (2) Living allowance :  
For GTC (21 days)  
Per diem at the rate of Baht 400.- per day (approx. US\$ 14.82)  
This allowance is to cover meal and other personal daily expenses.  
(accommodation will be provided separately by the Project.)
- (3) In accordance with relevant regulations, free medical treatment for minor ailments will be provided for participants who become ill after arrival in Thailand.

#### FACILITIES

The following facilities will be provided for participants.

- (1) Transportation for authorized field trip;
- (2) Immigration including extension of permit to stay in Thailand;
- (3) Orientation (briefing upon arrival);
- (4) Accommodation arrangement.

#### OTHER INFORMATION

- (1) Participants are requested to arrive in Thailand on the date designated by DTEC which will be informed after the confirmation of acceptance.
- (2) An air-ticket will be sent to the participants through representative of the Thai International Airline in participating countries.
- (3) Participants should assume responsibility for other expenses occurred during the travel between their home countries and Thailand.

- (4) Upon arrival, participants will be met at the airport and be provided with transport to the hotel.
- (5) Living allowance is sufficient only for a normal living expenses for one person. No allowance of any kind will be paid to the dependants of participants.
- (6) Participants are requested not to bring their dependants with them.
- (7) Pregnancy participant will be not accepted by this course.
- (8) Neither the Government of Japan nor the Royal Thai Government will be indemnified or liable for accidents, disabilities and loss of life resulting from participation in the course. Therefore, participants are recommended to insure themselves against them before departure.
- (9) Participants must first obtain the appropriate visas from the Royal Thai Embassies or Consulates in their respective countries.
- (10) Participant of Group Training Course is strongly requested to contribute an oral paper of country report.

10.1 Oral presentation will be of 15 minutes duration followed by 5-10 minutes discussion. All relevant equipments, such as slide viewer, transparency, projector and movie projector will be provided.

10.2 Manuscript, including footnote, references, tables and legends must be typewritten, double-spaced and 2 copies submitted.

An informative summary (one that tells only what was done and what was learned) must be included.

10.3 The typewritten country report mentioned above must be submitted, to the Department of Livestock Development, Phya Thai Road, Bangkok 10400, Thailand by 5 th. February, 1986.



(11) Further information is available at:

The Thai Aid Programme,  
Department of Technical and Economic Cooperation (DTEC)  
962 Krung Kasem Road, Bangkok 10100,  
Thailand.  
Phone : 2810552, 2821188

#### PROGRAMME AND CURRICULUM

##### Group Training Course (GTC)

- A Basic Knowledges on FMD (lecture)
  - 1. General Feature of Animal Virus Replication.
  - 2. Protein Synthesis
  - 3. Immune Mechanism
  - 4. Genetic Engineering
- B Country Reports (Delegates presentation)
  - 1. FMD Situation
  - 2. Problems of FMD Control
- C Procedures for FMD Control (lecture and discussion)
  - 1. Characteristic of FMD
  - 2. Diagnosis
  - 3. Epidemiology
  - 4. Disease Control
  - 5. Vaccination Campaign
  - 6. Vaccine Production
  - 7. Vaccine Quality Control
  - 8. Antigenic Variation and Immune Response
  - 9. National Programme and Organization
  - 10. International Cooperation

D Demonstration

1. Clinical observation of affected animals
2. Sampling from animals and sample transportation
3. Laboratory diagnosis
4. Vaccine production
5. Vaccine Quality Assessment

### 13. タイ口蹄疫防疫（個別）第三国研修G・I



# THIRD COUNTRY TRAINING PROGRAMME

ON

## FOOT AND MOUTH DISEASE CONTROL (INDIVIDUAL TRAINING COURSE)

OCTOBER 1, 1985 – MARCH 2, 1986  
BANGKOK, THAILAND



Jointly organised by

THE DEPARTMENT OF LIVESTOCK DEVELOPMENT,  
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

# THIRD COUNTRY TRAINING PROGRAMME

ON

## FOOT AND MOUTH DISEASE CONTROL (INDIVIDUAL TRAINING COURSE)

OCTOBER 1, 1985 – MARCH 2, 1986  
BANGKOK, THAILAND



Jointly organised by

THE DEPARTMENT OF LIVESTOCK DEVELOPMENT,  
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

TRAINING COURSE  
ON  
FOOT AND MOUTH DISEASE CONTROL

OCTOBER 1, 1985 - MARCH 2, 1986

JOINTLY OFFERED BY

THE ROYAL THAI GOVERNMENT AND THE GOVERNMENT OF JAPAN

The Training Course on Foot-and-Mouth Disease Control will be conducted jointly by the Royal Thai Government and the Government of Japan as parts of their Technical Cooperation Programme.

Arrangements for conducting the Training Course are made by the Department of Technical and Economic Cooperation (DTEC) and the Japan International Cooperation Agency (JICA) in collaboration with the Department of Livestock Development (DLD) and other related organizations in Thailand.

PURPOSE

The purpose of the Training Course is to contribute to control of Foot-and-Mouth Disease (FMD) in Asian region.

QUALIFICATIONS FOR INDIVIDUAL TRAINING COURSE (ITC)

Applicants should:

- (1) be nominated by their governments in line of Procedure for application;

- (2) be university graduates or equivalents who are presently engaged in the field of animal disease diagnosis, production of vaccine of disease control in the government organizations with occupational experience of preferably more than three (3) years,
- (3) have a sufficient command of spoken and written English,
- (4) be in good health, both physically and mentally to participate in the Training Course:

APPLICANTS FOR ITC SHOULD BE ENGAGED SPECIALLY IN LABORATORY WORK OF VACCINE PRODUCTION OR DIAGNOSIS

- (5) The Individual Training Course (ITC), the applying Government should identify an applicant to get training in either PRODUCTION or DIAGNOSIS;-

1) PRODUCTION : Name of Nominee.....

2) DIAGNOSIS : Name of Nominee.....

#### DURATION

Individual Training Course (ITC) is 131 days from October 1, 1985 to March 2, 1986.

#### LANGUAGE

The course will be conducted in English.

#### INSTITUTION

The Training Course will be conducted by :

Foot-and-Mouht Disease Vaccine Production Center, the Department of Livestock Development, Ministry of Agriculture and Cooperatives, Pakchong District, Nakornrachasima Province, Thailand.



## PROCEDURE FOR APPLICATION

- (1) The government desiring to nominate a participant for the Training Course should fill in and forward three(3) copies of Nomination Form for each participant through the Royal Thai Embassy or Consular Representative in their countries or send nomination forms directly to the Thai Aid Programme, Department of Technical and Economic Cooperation, 962 Krung Kasem, Bangkok 10100, Thailand, not later than August 15, 1985.
- (2) The Royal Thai Government, after consulting with the Government of Japan, will inform the applying governments whether the nominees are accepted not later than September 6, 1985.

## ALLOWANCE AND EXPENSES

Participants will be provided with the following allowance and expenses:

- (1) Economy class air ticket between the international airport designated by DTEC and Bangkok will be sent to the applicants in advance by the representative of the Thai International Airline in the participant's country. Air ticket for the return trip will be arranged by DTEC.
- (2) Living allowance:  
For ITC Course  
Living allowance at the rate of Baht 500.- per day (approx.US\$ 18.52) will be paid to participants when arriving Bangkok. This allowance is to cover board and lodging and other personal daily expenses.
- (3) In accordance with relevant regulations, free medical treatment for minor ailments will be provided for participants who become ill after arrival in Thailand.

## FACILITIES

The following facilities will be provided for participants;

- (1) Transportation for authorized field trip;
- (2) Immigration including extension of permit to stay in Thailand;
- (3) Orientation (Briefing upon arrival);
- (4) Accommodation arrangement.

## OTHER INFORMATION

- (1) Participants are requested to arrive in Thailand on the date designated by DTEC which will be informed after the confirmation of acceptance ;
- (2) An air-ticket will be sent to the participants through representative of the Thai International Airline in participants countries;
- (3) Participants should assume responsibility for other expenses occurred during the travel between home country and Thailand ;
- (4) Upon arrival, the participants will be met at the airport and will be provided transportation to the hotel.
- (5) Living allowance is sufficient only for a normal living expenses for one person. No allowance of any kind will be paid for participants dependant ;
- (6) Participants are requested not to bring their dependants with them;
- (7) Pregnancy participant will be not accepted by this course.
- (8) Participants are required to stay at the assigned hotel ;
- (9) The Government of Japan and the Royal Thai Government will not be indemnified or liable for accident, disability and loss of life resulting from participation in the programme ;

(10) Further information is available at :

THE THAI AID PROGRAMME,  
Department of Technical and Economic Cooperation (DTEC),  
962 Krung Kasem Road,  
Bangkok 10100,  
Thailand.

#### TENTATIVE PROGRAMME

##### 1. Individual Training Course

###### A. Lecture and practice on fundamental laboratory techniques

(Compulsory)

1. Tissue culture preparation
2. Virus assay with cell culture
3. Experiments of small laboratory animals
4. Serological technique

###### B. Exclusive study (Optional between 1 and 2)

###### 1. Laboratory diagnosis

- 1) Virus isolation
- 2) Virus typing
- 3) Antigenic differentiation of virus strains
- 4) Serological survey on field blood samples

###### 2. Vaccine Production

- 1) Preparation of instrument, medium, and virus
- 2) Suspension cell culture in experimental scale
- 3) Suspension virus culture in experimental scale
- 4) Virus inactivation
- 5) Production in large scale : rolling culture, suspension culture
- 6) Vaccine quality control : sterility test, safety test, potency test

C. Observation tour (Compulsory)

Diagnostic Laboratory Center in Southern of  
Thailand and /or others.

Remarks

1. The Individual Training Course (ITC) during October 1, 1985 to  
March 2, 1986 is divided into 2 parts:-

a) Individual Training Course (ITC)

October 1, 1985 to February 8, 1986

b) Group Training Course (GTC)

February 9 to March 2, 1986

The participants in ITC are supposed to attend GTC from February 9 to  
March 2, 1986

2. For the GTC during February 9 to March 2, 1986, the respective  
governments are invited to nominate additional participants, the informa-  
tion of which would be circulated thereafter.

#### 14. タイ皮膚病第三国研修G・I（昭和59年度）



DIPLOMA COURSE

IN

DERMATOLOGY

MARCH 25, 1985 - JANUARY 24, 1986

OFFERED JOINTLY BY  
THE ROYAL THAI GOVERNMENT  
AND  
THE GOVERNMENT OF JAPAN

**DIPLOMA COURSE  
IN  
DERMATOLOGY**  
MARCH 25, 1985—JANUARY 24, 1986

The Diploma Course in Dermatology will be conducted jointly by the Royal Thai Government and the Government of Japan as part of its Technical Cooperation Programme.

The course arrangements are made by the Department of Technical and Economic Cooperation (DTEC) and the Japan International Cooperation Agency (JICA). The Institute of Dermatology conducts the course in collaboration with other related organizations in Thailand and Japan.

**PURPOSE**

The course is designed to:

- (1) enable junior dermatologists to be familiar with common skin diseases; to know how to explore the problems, diagnostic approaches and management;
- (2) initiate the development of proper methods of study of skin diseases;
- (3) furnish training in basic sciences and clinical dermatology to physicians who propose to follow fulltime career in dermatology;
- (4) provide an atmosphere emphasising the acquisition of useful scientific knowledge and its application and to provide an impetus research and scholarship and nature of the entire learning process;
- (5) retain good relationship among doctors from Asian and Pacific countries.



## QUALIFICATIONS

Applicants should:—

- (1) be nominated by their governments in accordance with the Procedures for Application;
- (2) have completed the degree in medical doctor;
- (3) have at least one (1) year working experience in the field of dermatology;
- (4) have sufficient command of spoken and written English. In case English is not their countries' official language, the English Certificates of candidates should also be submitted for consideration;
- (5) be under forty-five (45) years of age;
- (6) have appropriate physical fitness.

## DURATION

10 (ten) months from March 25, 1985-January 24, 1986

## LANGUAGE

The course will be conducted in English

## INSTITUTION

The course will be conducted by  
The Institute of Dermatology,  
Department of Medical Services,  
Ministry of Public Health, Bangkok, Thailand.

## PROCEDURES FOR APPLICATION

- (1) A government desiring to nominate an applicant for the course should fill in and forward five (5) copies of the Nomination Form for each applicant to the Government of Thailand through the Royal Thai Embassy in their countries or send directly to the Thai Aid Programme, Department of Technical and Economic Cooperation, 962 Krung Kasem Road, Bangkok 10100, THAILAND, not later than February 1, 1985;
- (2) The Department of Technical and Economic Cooperation (DTEC), after consulting with the Institute of Dermatology, will inform the authority concerned of the nominating government whether the nominees are acceptable in the course not later than March 1, 1985.

## ALLOWANCE AND EXPENSES

The following allowance and expenses will be borne by the Royal Thai Government and the Government of Japan :

- (1) Economy class air ticket between the international airport designated by DTEC and Bangkok will be sent to the applicants in advance by the representative of the Thai International Airline in the participant's country. Air ticket for the return trip will be arranged by DTEC.
- (2) Living allowance at the rate of B 9,000.— (approximately US\$ 391.30) per month will be paid to the participant upon arriving Bangkok. This living allowance is to cover board and lodging, local transportation and other personal daily expenses.
- (3) In accordance with relevant regulations, medical insurance will be provided for participants after arrival in Thailand.
- (4) Transportation for observation tour outside Bangkok will be provided for authorized study tours in Thailand.

## FACILITIES PROVIDED

The following facilities will be provided by the Royal Thai Government through the Department of Technical and Economic Cooperation:—

- (1) Arrangement for the training programme;
- (2) income tax clearance including the arrangement for the extension of the permit to stay in Thailand;
- (3) Orientations (Briefing upon arrival);
- (4) Accommodation reservation and arrangement.

## DIPLOMA

Diploma in Dermatology from the Institute of Dermatology is approved by the Ministry of University Affairs of Thailand. Participants who successfully complete the course and pass the examination will be awarded the Diploma in Dermatology.

## OTHER INFORMATION

- (1) Participants are required to arrive in Thailand on the date designated by DTEC after the confirmation of acceptance. However, the date will be finally confirmed through the air ticket sent to the participants.
- (2) Participants should assume responsibility for other expenses occurred during travel between the participant's home country and Thailand.
- (3) Participants shall make their own arrangements for any financial matters of private nature not provided for by the DTEC.
- (4) On arrival at Bangkok International Airport, participants will be met by a representative of DTEC. Necessary care of the participants, thereafter, will be taken by DTEC and the Institute of Dermatology throughout the duration of the course.

- (5) Participants are required to observe strictly the course schedule.
- (6) Application to change or alter the training subject or to extend the training period will not be accepted.
- (7) Participants are requested not to bring any member of their families. The living allowance paid by the Government of Thailand and the Government of Japan sufficient only to cover normal living expenses for one person. No allowance of any kind will be paid for their dependants.
- (8) For administrative uses, participants are requested to bring four (4) copies of their photographs.
- (9) The Royal Thai Government and the Government of Japan will not be indemnified or liable for accident, disability and loss of life resulting from participation in the programme.
- (10) Each participant is advised to have a pocket money for a few day expenses prior to the allowance being paid by the Royal Thai Government and the Government of Japan.
- (11) VISAS PROCEDURES:—
  - (a) Prior to arrival to Thailand, all participants must first obtain the appropriate visas from the Royal Thai Embassy or Consular Representative in their countries.
  - (b) Those who have already obtained the appropriate permit of stay in the Kingdom of Thailand, re-entry visas are needed if they intend to leave the country temporarily. The re-entry visas must be obtained prior to their departures.
  - (c) Those who come from countries where the Thai Embassy or Consulate is not available, prior to their arrival to Thailand, the visas can be obtained by direct contact with the Immigration Division, Police Department, Ministry of Interior, Bangkok, Thailand.

(12) Further information concerning the course is available at the following address:—

Thai Aid Programme  
Department of Technical and  
Economic Cooperation (DTEC)  
962 Krung Kasem Road, Bangkok 10100,  
Thailand.  
Tel. 2810552, 2821188

### TENTATIVE PROGRAMME

#### 1. Lectures

- 1.1 Introduction to dermatology
- 1.2 Bacteriology
- 1.3 Clinical research
- 1.4 Cosmetic dermatology
- 1.5 Connective tissue diseases
- 1.6 Disease of hair
- 1.7 Disease of nails
- 1.8 Dermatitis and eczema
- 1.9 Erythema group
- 1.10 Geriatric dermatology
- 1.11 Genetics
- 1.12 Genodermatosis
- 1.13 Histopathology & electron microscope
- 1.14 Immunology
- 1.15 Leprosy
- 1.16 Mycology
- 1.17 Parasitology & Arthropods
- 1.18 Pharmacology
- 1.19 Papulosquamous eruption
- 1.20 Pigmentation
- 1.21 Pediatric dermatology
- 1.22 Photobiology
- 1.23 Skin signs in systemic disease
- 1.24 Tumors
- 1.25 Virology
- 1.26 Venereal diseases
- 1.27 Vesiculobullous eruption

## 2. Clinical dermatology

- 2.1 Clinical demonstration
- 2.2 O.P.D.
- 2.3 I.P.D. and Ward round
- 2.4 Symposium
- 2.5 Clinico pathological conference
- 2.6 Chart record discussion
- 2.7 Subspecialty clinics
  - 2.7.1 Immunology clinic
  - 2.7.2 Contact clinic
  - 2.7.3 Mycology clinic
  - 2.7.4 Leprosy clinic

## 3. Field trip

- 3.1 Chon Buri province
- 3.2 Nakhon Ratchasima province
- 3.3 Chiang Mai province
- 3.4 Raj Pracha Samasai Institute
- 3.5 Bangrak Hospital

## 4. Subspecialties

- 4.1 Mycology
- 4.2 Dermatopathology
- 4.3 Immunology
- 4.4 Clinical study

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Printed at the Secretariat of the Cabinet Printing Office,  
Sam Sen Road, Bangkok Thailand.

Mr. Prayong Panin, Printer and Publisher, 1984

## II. 中 近 東 地 域





## 1. エジプト看護管理第三国研修G・I



INTERNATIONAL COURSE ON NURSE TRAINING  
(Nursing Service Administration in Primary Health Care  
for African Nurse Leaders).  
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I. INTRODUCTION :

The 1st International Course in nurse training which is jointly sponsored by the Government of Arab Republic of Egypt (Ministry of Health), (Egyptian fund for African Technical Cooperation.) and Government of Japan (International Cooperation Agency "JICA") offer Training opportunities for nurse leaders from African Countries .. in Nursing service Administration .. in Primary health Care.

The course will be held in Cairo from 21st Sept. to 17th Oct. 1985.

II. THE PURPOSE OF THE COURSE :

To deepen knowledge and skills of Nurse Leaders in African Countries in the field of Nursing Administration with particular emphasis on Primary Health Care. The overall objectives of the course will be to improve the Technical and managerial skills of nurse leaders who hold responsible positions.

III. OBJECTIVES OF THE COURSE :

1. To identify the status and problems of the Nursing Education and practice in African Countries.
2. To discuss the needs of their country in the field of Nursing.
3. To recognize the importance of having a professional Nursing Organization.
4. To apply scientific approach for problem solving in Nursing situation.
5. To understand the role of nurses in achievement of the goal of health for ALL by year 2000.

IV. QUALIFICATION OF APPLICANTS :

Applicants are to be nominated by their government in accordance with the following procedures :

- a) To fill 5 copies of the prescribed application form for each nominee, to be sent to the government of Egypt through its diplomatic channels not later than 15 June 1985.
- b) To be "state registered Nurse" and to have the practical experience of more than 5 years in the field of nursing also engaged in nursing services or Nursing Education.
- c) To be between 30 - 50 years of age.
- d) Have a sufficient command of spoken and written English. (The course will be held in English Language).
- e) To be citizen of the nominating countries and ..
- f) To be in good health physically and mentally to complete the course of training.

The chosen participants are entitled to :

- 1. Paid economy class air ticket from their country to Cairo & return.
- 2. A per: dium of LE 30 plus LE 30 to cover accommodation charges.
- 3. Free medical care for participants who may fall ill during they stay.

Please find enclosed 5 copies of application form .. to be filled clearly by the suitable candidate and to be returned before 15 June 1985.

Chosen participants will receive further details later on.

THE FIRST INTERNATIONAL TRAINING  
COURSE FOR AFRICAN NURSE LEADERS

THE NAME OF EGYPTIAN PARTICIPANTS

NAME	POST	NAME OF GOVERNORATE
1. Mrs. Anjil zaki Azer	Director of Nursing Service Department-Cairo Health Directorate	Cairo Governorate
2. Mrs. Soheir Abd-El Maksoud	Director of Nursing Service Department-El Menofia Health Directorate	Menofia Govern.
3. Mrs. Fawzia Abd-El Satar	Inspector - Ismailia Health Directorate Nursing Service Dept.	Ismailia Governorate
4. Mrs. Sanaa Adam El Said	Inspector - Port Said Health Directorate Nursing Service Dept.	Port Said Governorate
5. Mrs. Effat Sarhan	Matron - Manshiat El Bakry Hospital Cairo Health Directorate	Cairo Governorate
6. Miss. Laila Boulis	Matron - El Sahel Teaching Hospital Teaching Organization	Cairo Governorate
7. Mrs. Nadia Nagib Gebrial	Matron - Kafr El Sheik Hospital - Kafr El Sheikh Health Directorate	Kafr El Seikh Governorate
8. Mrs. Kamilia Fouad Seidhom	Matron - El Eiman Hospital - Asiut Health Directorate	Asiut Governorate
9. Dr.		Higher Institute of Nursing Cairo University

Course Coordinator

Mrs. Bahia Ahmed Fouad



## 2. エジプト船員教育第三国研修G・I





GOVERNMENT OF ARAB REPUBLIC OF EGYPT  
ARAB MARITIME TRANSPORT ACADEMY  
UNDER THE THIRD COUNTRY TRAINING PROGRAMME OF  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

COURSE INFORMATION

International Course  
on Maritime Education and Training  
From 16.11.1985 to 28.11.1985  
at the Arab Maritime Transport Academy

I. Programme of the 1985 Seminar

1. Presentation of the aims and objectives of the Arab Maritime Transport Academy and the courses offered by it.
2. Presentation by the participants of the needs and activities of their respective countries in the maritime training field.
3. Presentation by Professors from AMTA and Japan of the recent trends in the field of maritime technology:
  - 3.1. Marine Engineering
  - 3.2. Navigational instruments and equipment
  - 3.3. Communication systems
  - 3.4. Safety at sea
  - 3.5. Cargo handling
  - 3.6. Maritime transport management
  - 3.7. Automatic control systems
  - 3.8. Ship construction
4. Review of the recent developments in Marine Diesel Engines.
5. Presentation of the programme of the course to be offered at AMTA in 1986 under the Third Country Training Programme dealing with "The Operation and Maintenance of Marine Diesel Engines".

## II. Schedule of the 1985 Course Operation

1. The course will be held from November 16th to November 28th, 1985.
2. The number of working days will be 12 days.
3. The working days will be divided into two sessions:
  - 3.1. The morning session, from 09.00 to 12.00
  - 3.2. The afternoon session, from 14.00 to 16.00
4. The schedule is as follows:
  - 4.1. Saturday 16 November
    - Opening Ceremony
    - Speech by Director General of AMTA
    - Speech by Representative of Japanese Embassy/JICA
    - Presentation of the aims and activities of AMTA
    - Visit to educational departments, labs and workshops of AMTA.
  - 4.2. Sunday 17 - Wednesday 20 November (4 working days)

Presentation by different participants of the needs and activities in the maritime training field of their respective countries.
  - 4.3. Thursday 21st - Friday 22nd November

Study Tour
  - 4.4. Saturday 23rd - Monday 25th November (3 working day)

Presentation by Professors from AMTA and from Japan on the recent trends in the field of marine technology. (3 papers to be read every working day. Each paper includes 1 hour lecture + 30 mins discussion)
  - 4.5. Tuesday 26th November

Review of recent developments in the field of Marine Diesel Engines (5 hours)
  - 4.6. Wednesday 27th November

Review of recent developments in marine diesel engines (3 hours).  
Presentation of the programme of the course to be offered at AMTA in 1986 under the "Third Country Training Programme" which will deal with "The Operation and Maintenance of Marine Diesel Engines" (2 hours).
  - 4.7. Thursday 28th November
    - Discussions on the achievements and success of the Seminar
    - Recommendations
    - Closing Ceremony

GOVERNMENT OF ARAB REPUBLIC OF EGYPT

ARAB MARITIME TRANSPORT ACADEMY

APPLICATION FORM

Instructions:

Application Forms should be completed in English in typewritten form. Six copies are required: five copies shall be sent to the Egyptian Ministry of Foreign Affairs in Cairo and one copy shall be forwarded directly to the Arab Maritime Transport Academy, P.O.B. 1029, Alexandria, Egypt. Application Forms should be forwarded not later than 31st August 1985.

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The Government of \_\_\_\_\_

nominates \_\_\_\_\_

for a Seminar on: "International Course on Maritime Education and Training", from 16.11.1985 to 28.11.1985 at the Arab Maritime Transport Academy and organised by the Government of Egypt and AMTA under the Third Country Training Programme of Japan International Cooperation Agency.

and certifies that:

- a. All information supplied by the nominee is complete and correct.
- b. Nominee is a citizen of the nominating country.
- c. Nominee has a good command of spoken and written English.
- d. Nominee is in good health to complete the course.
- e. Nominee is more than 25 years old.
- f. Nominee is a senior technical official with adequate experience in the field of maritime transport.

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Place and Date:

Signature of Responsible  
Government Official

Official Address:

Title:

PERSONAL HISTORY FORM

1. Family Name                              First Name                              Middle Name

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2. Date of Birth    Nationality

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3. Office Address    Tel.  
    Telex

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4. Home Address    Tel.

---

5. English Language:          Fair                  Good                  Excellent

---

6. Name of Institute/Organisation

---

7. Title of Present Post

---

8. Duties & Responsibilities

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9. Professional Experience: (This is a chronological record of your professional career. Start with your present position and work backward in time to your first professional job).

---

10. Education: (Start with last attended instruction and work backwards).

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Place & Date:

Signature:

LIST OF INVITED COUNTRIES

1. Morocco
2. Algeria
3. Tunisia
4. Sudan
5. Ethiopia
6. Somalia
7. Djibouti
8. Kenya
9. Tanzania
10. Comoro Islands
11. Madagascar
12. Angola
13. Congo
14. Zaire
15. Gabon
16. Cameroon
17. Nigeria
18. Togo
19. Ghana
20. Ivory Coast
21. Liberia
22. Siera Leone
23. Guinea
24. Gambia
25. Senegal
26. Mauritania

### Ⅲ. アフリカ地域





## 1. 象牙海岸内視鏡第三国研修G・I



MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

LE MINISTRE

Abidjan, le 25-3-85

à

Monsieur le Ministre  
de la Santé de la Mauritanie  
NOUAKCHOTT - République Islamique de Mauritanie

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

Cette formation, destinée aux jeunes médecins d'Afrique francophone, se déroulera dans l'un des Centres Hospitaliers Universitaires d'Abidjan, et durera trois mois (du 20 Janvier au 25 Avril 1986).

Je vous fais parvenir les conditions de participation jointes en annexe.

Je vous prie de croire, Monsieur le Ministre et Cher Collègue, en l'assurance de ma haute et fraternelle considération.



Professeur Alphonse DJEDJE MADY

MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

*République de Côte d'Ivoire  
Union - Discipline - Travail*

LE MINISTRE

Abidjan, le 25-3-85

à

Monsieur le Ministre  
de la Santé de GUINEE

CONAKRY - République Populaire Révolutionnaire  
du Guinée.

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

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Professeur Alphonse DJEDJE MADY

MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

LE MINISTRE

Abidjan, le 25-9-85

à

Monsieur le Ministre  
de la Santé du Sénégal  
DAKAR - République du Sénégal

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

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MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

LE MINISTRE

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

*Abidjan, le*

*25-9-85*

à  
Monsieur le Ministre  
de la Santé Publique de la  
République Populaire du BENIN

COTONOU

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

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Professeur Alphonse DJEDJE MADY

MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

LE MINISTRE

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

Abidjan, le 25-9-85

à

Monsieur le Ministre  
de la Santé Publique de la  
République du TOGO

LOME

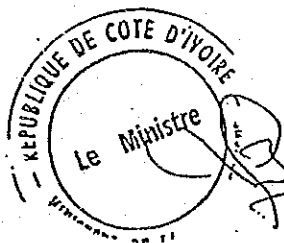
Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

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Je vous fais parvenir les conditions de participation jointes en annexe.

Je vous prie de croire, Monsieur le Ministre et Chère Collègue, en l'assurance de ma haute et fraternelle considération.



Professeur Alphonse DJEDJE MADY

MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

LE MINISTRE

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

*Abidjan, le*

*25 - 9 - 85*

à  
Monsieur le Ministre  
de la Santé Publique de la  
République du NIGER

NIAMEY

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

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Professeur Alphonse DJEDJE MADY



MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

LE MINISTRE

*République de Côte d'Ivoire*

*Union - Discipline - Travail*

Abidjan, le 25-9-85

à  
Monsieur le Ministre  
de la Santé Publique de la  
République du MALI

BAMAKO

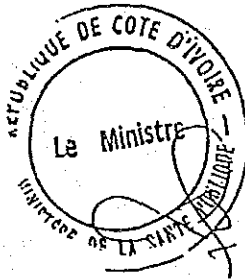
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Je vous prie de croire, Monsieur le Ministre et Cher Collègue, en l'assurance de ma haute et fraternelle considération.



Professeur Alphonse DJEDJE MADY

MINISTÈRE DE LA SANTÉ PUBLIQUE  
ET DE LA POPULATION

LE MINISTRE

*République de Côte d'Ivoire*  
*Union - Discipline - Travail*

Abidjan, le

25-9-85

à

Monsieur le Ministre  
de la Santé Publique de la  
République Démocratique et Populaire  
du BURKINA FASO

OUAGADOUGOU

Monsieur le Ministre et Cher Collègue,

J'ai l'honneur de porter à votre connaissance que dans le cadre de leur Coopération, la République de Côte d'Ivoire et le Japon organisent, pour la deuxième fois, un stage international d'Endoscopie Digestive.

Cette formation, destinée aux jeunes médecins d'Afrique francophone, se déroulera dans l'un des Centres Hospitaliers Universitaires d'Abidjan, et durera trois mois (du 20 Janvier au 25 Avril 1986

Je vous fais parvenir les conditions de participation jointes en annexe.

Je vous prie de croire, Monsieur le Ministre et Cher Collègue, en l'assurance de ma haute et fraternelle considération.



Professeur Alphonse DJEDJE MADY

## N O T I C E

### I - CONDITIONS DE PARTICIPATION

- 1 - Etre indemne de toute maladie contagieuse ou évolutive, et à jour de ses vaccinations internationales ;
- 2 - Etre titulaire du Diplôme de Docteur en Médecine ;
- 3 - Etre de la Nationalité du pays concerné ;
- 4 - Avoir des connaissances médicales acceptables en Hépatogastro-entérologie ;
- 5 - Signer un engagement, d'une part, de suivre les cours et exercices pratiques intégralement et, de l'autre, de ne s'adonner à aucune autre activité (politique, commerciale etc...) qu'à celles caractérisant ce stage de formation théorique et pratique en Côte d'Ivoire.
- 6 - Etre de moralité irréprochable

II - NOMBRE DE CANDIDATS RETENUS PAR PAYS DEMANDEUR = 1(un), soit 7 (Sept) au total

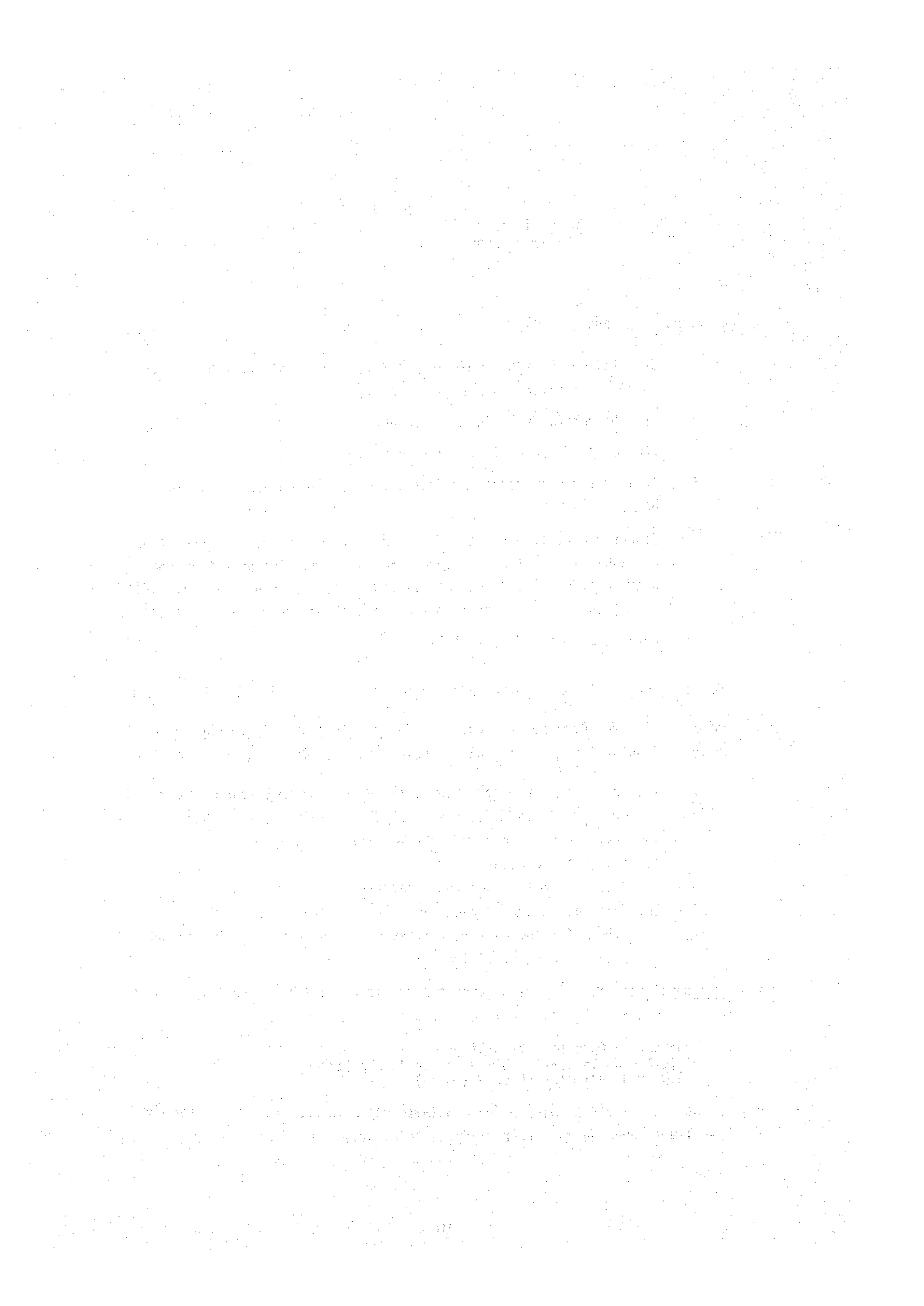
III- Aménagements pratiques pour chaque candidat entièrement pris en charge par la République de Côte d'Ivoire et le Gouvernement du Japon, et comprenant :

- 1 - les frais du voyage par avion aller et retour en classe économique ;
- 2 - les frais d'hébergement dans un hôtel non loin du lieu du stage ;
- 3 - les frais de transport de l'hôtel au lieu du stage ;
- 4 - les frais de nourriture ;
- 5 - les frais des soins médicaux éventuels ;
- 6 - les frais de voyages d'étude au sein du territoire ivoirien ;
- 7 - une allocation journalière forfaitaire d'environ 9.000 francs CFA accordée à chaque stagiaire.

IV - Les dossiers pour sélection devront parvenir au pays hôte avant le 20 Novembre 1985 à l'adresse suivante :

Monsieur le Directeur de Cabinet  
Ministère de la Santé Publique et de la Population  
B.P. V 4 ABIDJAN (Côte d'Ivoire)

V - La date d'arrivée à Abidjan des candidats sélectionnés leur sera communiquée par leurs Gouvernements respectifs en temps utile.



## 2. ケニア・マイクロウェーブ第三国研修G・I



KENYA POSTS & TELECOMMUNICATIONS CORPORATION

CENTRAL TRAINING SCHOOL

REGIONAL TRAINING COURSE IN MICROWAVE

RADIO ENGINEERING

Sponsored By The Japanese Government In Co-operation With  
Kenya Posts & Telecommunications Corporation

((General Information))

III-11

1. INTRODUCTION

As a further step in Technical Co-operation between Japan and other Countries in Africa, the Government of Japan through its Agency JICA (Japan International Co-operation Agency) in Co-operation with the Kenya Posts and Telecommunications Corporation commenced in 1981 a Third Country Training Programme now called Regional Training Course in Microwave Radio Engineering to be centred at the Corporation's Central Training School, Mbagathi. Already three courses on Microwave Communications Engineering have been successfully conducted here.

2. PURPOSE

This course has been designed for Graduate Engineers in Telecommunications Administrations of Eastern and Southern Sub Regions of Africa. The Microwave Radio Engineering course is conducted to provide participants with comprehensive theoretical and practical training in Microwave Radio Engineering so that participants will be able to acquire sufficient knowledge and skill in the field of planning, design work for Microwave systems in their countries. The course will pay particular emphasis on the digital Microwave Radio System which forms the main part of future Telecommunications Network.

3. PROGRAMME

Attached is an outline of the programme. This programme is subject to modification so that it includes new topics of interest that may be proposed by the participants.

4. QUALIFICATIONS OF APPLICANTS

Applicants are normally nominated by their Administrations in line with the procedures set out below:-

Applicants to the course are to be:-

- (i) be either graduates from College or Universities who have majored in telecommunication or electrical/electronics engineering, or those who have an equivalent technical knowledge;