OUTLINE OF THE GROUP TRAINING COURSES IN JAPAN IN FISCAL 1993

COURSES STARTING BETWEEN APRIL 1993 AND MARCH 1994

(平成5年度 集団コース コース概要)

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

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NOTE

This catalog gives the outline (not all detailed explanation) of each of the group training courses conducted by JICA in Japan.

It is intended to describe particular points of the respective courses in the limited space of this catalog, and thus some of the common facts and conditions such as follows are not mentioned under each course.

common points not mentioned on each page -(applicable to all courses)

- 1) PURPOSE: to contribute to promotion of mutual understanding
- 2) CURRICULUM: Briefing/orientation session, country report, observation/study visit, and wrap-up/evaluation session are basic elements of curriculum.

3) QUALIFICATION OF APPLICANT:

- (a) to be nominated by his/her government in accordance with the relevant procedures
- (b) to have sufficient command of English (as for some courses, French) language
- (c) to be in good health, both physically and mentally, to undergo the training (Pregnancy is regarded as a disqualifying condition.)
- (d) not to be serving in the military

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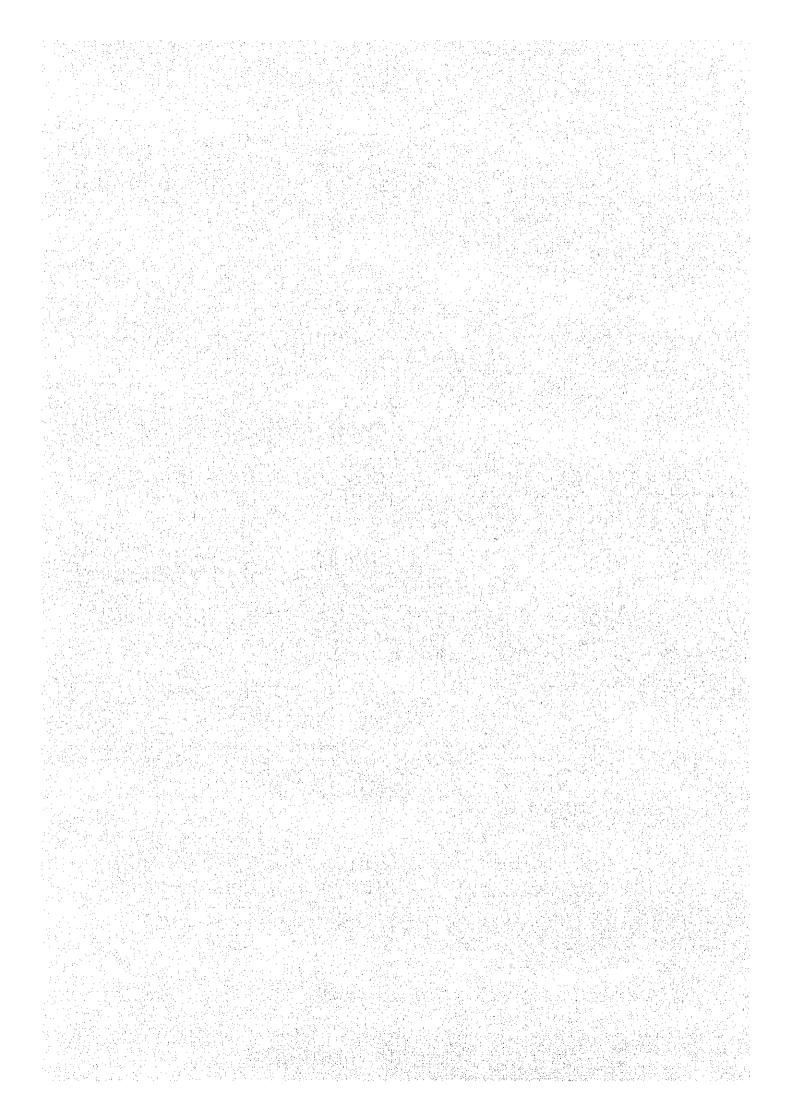
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DEVELOPMENT PLAN

開発計画



DEVELOPMENT ECONOMICS (GENERAL)

1. PURPOSE

The purpose of the course is to train the participants to learn the way of applying development economics to development planning in developing countries. The participants will be introduced to (1) national and regional development planning, and the interrelationship of individual projects, using case studies of developing countries and Japan, (2) the method of preparing feasibility studies of agricultural, industrial, transportation, public utility, and mining development projects, (3) the theory of project appraisal and planning by case studies so as to apply new knowledge to the workshops as practice.

2. DURATION

From September 7, 1993 to March 13, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Tem (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The following major subjects will be covered in the course.

- 1) development economics
- 2) theories and techniques of project planning
- 3) marco development planning
- 4) Japanese economic development
- 5) statistical analysis and national accounts
- 6) macro-sectoral workshop
- 7) thesis making

All the participants will be requested to write a research paper based on the knowledge and techniques of economic analysis.

5. QUALIFICATION OF APPLICANT

- 1) working on the planning or implementation of national or regional development projects and policy, and preferably be under 35 years of age
- have an undergraduate degree in economics or business administration as well as basic experience and knowledge regarding development projects
- 3) have a good background of mathematics

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) International Development Center of Japan (IDCJ)

DEVELOPMENT ECONOMICS (INDUSTRIAL PROJECT)

1. PURPOSE

The purpose of the course is to present to the participants an overview of theory and practice of industrial development drawing upon the Japanese experiences as well as the methods of financial and economic analysis of industrial projects practiced at the World Bank, the Asian Development Bank and other international development organizations including the Overseas Economic Cooperation Fund of Japan. (The linkage between macro economic planning and micro project analysis is discussed through lectures, workshop and observation tours.)

2. DURATION

From June 7, 1993 to August 22, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course is mainly composed of three parts: (1) Japanese Experience of Economic Development, (2) Project Appraisal, and (3) Workshop. Japanese Experience introduces the applicability to developing countries on macro-economic and sectoral development planning, and the relations between macro-economic approach and micro-economic (project) analysis. The part on Project Appraisal presents theory and technique of financial, economic and social analysis of industrial projects, as well as case studies.

At the final part, it is requested to apply knowledge and technique obtained through lectures and discussions to practical use in group work as workshop of project appraisal, and make a report as a result of participating in this training program.

5. QUALIFICATION OF APPLICANT

- minimum of three year's work experience in the fields covered by the course i.e. industrial development planning and/or industrial project formulation, implementation or evaluation, together with a reasonable length of time in their present position
- 2) between 30 and 40 years of age
- 3) possess a university degree and academic background in economics

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- 2) International Development Center of Japan (IDCJ)

SEMINAR ON ECONOMIC DEVELOPMENT POLICIES

1. PURPOSE

This Seminar is designed to introduce Japan's experiences of economic development policies to the participants, and derive some relevance for their further development planning through lectures, report presentations, discussions and field trip.

2. DURATION

From September 13, 1993 to November 7, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar covers the following.

- 1) Country Report Presentation and Discussion
- 2) Lecture-cum-Discussion
 - a. Macroeconomic Aspects
 - 1. Japan's economic development
 - 2. economic planning in Japan
 - 3. trade and development
 - 4. infrastructure investment and economic development
 - 5. role of government in economic development
 - 6. industrial policy of Japan
 - 7. technology development of Japan
 - 8. human resources development in Japan
 - 9. financial development
 - 10. social aspect of economic development
 - b. sectoral aspects
 - 11. agricultural development in Japan
 - 12. linkage between agricultural and industrial development
- 3) Final Report Writing, Presentation, and Revision

5. QUALIFICATION OF APPLICANT

- central government planner engaged in economic development planning and have at least years' occupational experience in this field
- 2) have an academic background in economics or those having a proper experience and knowledge on economic policy and planning
- 3) between 30 and 40 years of age

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) Economic Planning Agency (EPA)
- 3) International Development Center of Japan (IDCJ)

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ADMINISTRATION

行 政

SEMINAR ON CONTROL OF NARCOTIC OFFENCES II

1. PURPOSE

The purpose of the Seminar is to study effective and practical measures to eradicate drug offences as well as to further intensify international cooperation and deepen mutual understanding among the nations concerned through discussion and exchange of experiences with the problems, thus to contribute to the eradication of drug offences.

2. DURATION

From October 11, 1993 to October 28, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar covers the following topics.

1. Lecture

- 1) police activities in Japan
- 2) current trends and situation in drug offences and their countermeasures in Japan
- 3) Japanese organized crime syndicates (Yakuza)
- 4) international investigative cooperation
- 5) outline of system and activities of ICPO
- outline of drugs identification in Japan
- Comparative study (Country Report Presentation)
 - 1) major drug problems facing each society
 - 2) current situation of drug abuse in each country
 - 3) laws and regulation (confiscation of proceeds, etc.)
 - 4) investigative methods/techniques
 - 5) deportation procedures
- 3. Discussion and problem solving
 - 1) major drug problems in each country/region
 - 2) ways to improve international investigative cooperation

5. QUALIFICATION OF APPLICANT

- official in the rank of Director of Division or its equivalent in charge of Drug Law Enforcement at the Central Government
- 2) have experience of more than three years in drug law enforcement
- 3) have identification techniques

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) National Police Agency (NPA)

CRIME PREVENTION (TREATMENT OF OFFENDERS) II

1. PURPOSE

The purpose of the course is to provide the participants with an opportunity to study and to discuss various contemporary problems concerning the treatment of offenders in correctional institutions and their effective development.

2. DURATION

From April 5, 1993 to July 4, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course is mainly conducted in the form of discussions based upon the knowledge and experience of the participants with the advice of the faculty and visiting experts.

A characteristic feature of the course is group discussions, through which the knowledge and experience of the participants will be utilized to the fullest extent.

The major training programmes for the course are as described below.

- 1) comparative study on institutional treatment of offenders.
- 2) group workshops on topics selected by the participants.
- lectures by specialists on subjects relating to the main theme of "Current Problems in Institutional Treatment and their Solution" and other subjects of general interest.

5. QUALIFICATION OF APPLICANT

- 1) hold relatively senior position in a central bureau, department or field agency concerned with the treatment of offenders, and who has at least five years of practical experience in one's field
- 2) university graduate or equivalent
- 3) over 26 and under 50 years of age

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

CRIME PREVENTION (SENIOR SEMINAR) II

1. PURPOSE

The purpose of the seminar is to provide the participants with the opportunity to exchange information on the current situation and characteristics of organized crime in each country, to discuss various issues regarding organized crime and thus to formulate efficacious and appropriate policies to combat organized crime on a national and international level.

2. DURATION

From January 24, 1994 to March 6, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

To achieve the above purpose, this course emphasizes the discussions on the efficacious and appropriate criminal justice policies for organized crime control, innovative legislation for organized crime suppression, and development of international cooperation for organized crime control and the role of the United Nations, through which the participants will acquire the abilities in: (1) analyzing the current situation of organized crime, (2) exploring efficacious and appropriate criminal justice policies for organized crime control, (3) elaborating innovative legislation for the suppression of organized crime, and (4) studying international instruments to combat organized crime and examining effective ways and means for further development of international cooperation in this field.

In the course, the participants will be divided into small groups chosen by themselves and given ample opportunity to exchange views and experiences on selected problems. The result of the discussions will be summarized and published.

5. QUALIFICATION OF APPLICANT

- high-ranking criminal justice administrator at the policymaking level whose duties are closely related to the main theme of the seminar, and the rank of divisional director level or above in the central bureau of the agencies concerned with criminal justice, e.g., Ministry of Justice, Ministry of Interior, Supreme Court, etc.
- 2) between 35 and 55 years of age with the expectation to continue to work in this field for a minimum period of two years

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- 2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

CRIME PREVENTION (THE ADMINISTRATION OF CRIMINAL JUSTICE) II

1. PURPOSE

The purpose of the course is to provide the participants with an opportunity to study and to discuss contemporary problems concerning crimes and their effective countermeasures.

2. DURATION

From September 6, 1993 to December 5, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

To achieve the above purpose, the course emphasizes the discussions on crime prevention activities, effective investigation of urban crime, urbanization and juvenile delinquency, and role of criminal justice in protecting environment, through which the participants will acquire the abilities in (1) analyzing the present situation of urban crime and to find possible measures to prevent it, (2) examining the effective measures to cope with difficulties in criminal justice administration related to urban crime, (3) searching the effective juvenile justice administration, (4) collecting enough information on legislation regarding environmental crime, (5) understanding what role criminal justice administration should play in protecting the natural environment.

In the course, the participants will be divided into small groups chosen by themselves and given ample opportunity to exchange views and experiences on selected problems. The result of the discussions will be summarized and published.

5. QUALIFICATION OF APPLICANT

- hold relatively a senior position in a central bureau, department or field agency concerned with investigation, prosecution, trial or prevention of crime or treatment of offenders, and who has at least eight years of experience in one's field years of practical experience plus a university degree or its equivalent.
- 2) not more than 50 years of age

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

LOCAL GOVERNMENT II

PURPOSE

The purpose of the course is to contribute to the development and improvement of Local Government administration methodology in developing countries through introducing the roles, systems and functions of Japanese Local Government and providing opportunities to exchange ideas and information among the participants.

2. DURATION

From May 11, 1993 to July 21, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the following major subjects will be covered through lectures, discussions, comparative studies, field studies in local governments and observation trips.

- 1) local government system in Japan
- 2) election system in Japan
- 3) local public administration
- 4) local public finance
- 5) regional development

5. QUALIFICATION OF APPLICANT

- 1) university/college graduate or equivalent with occupational experience of more than seven years in the civil service relating to local public administration
- 2) between 30 and 40 years old
- 3) civil service personnel holding responsible government position (managerial or supervisory) and be promising candidate for the post of top management in the local government or that of senior management in the central government in the future

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Local Autonomy College

7. REMARKS

 Country Reports will be highly utilized both for the selection of participants and for the Comparative Studies.

NATIONAL GOVERNMENT ADMINISTRATION II

1. PURPOSE

The main purposes of this course are:

- to assist participants in seeking better ways to improve public administration in order to assure efficient formation of policy.
- 2) to introduce them to modern public administration appropriate to economic and social development.

2. DURATION

From May 18, 1993 to July 4, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course focuses on the early stage (fundamental phase) of modernization in development countries with reference to the Japanese experience after the Meiji Restoration (1868).

It covers the following topics.

- 1) Modernization in Japan
 - public administration and civil service system
 - modernization process
- Fundamental Policy Areas for Modernization -Case Study

(Lectures on the policy process of specified cases will be given with reference to previously made observations of actual policy implementation.)

This year's case study will come from the following subjects:

- developmental policy of private industry
- educational system
- infrastructure building transportation
- infrastructure building communication

- 3) Fundamental Policy Areas Framework Analysis
 - policy process in Japan
 - human resource management
 - financial management
 - role of administration in development
- 4) Modernization of Public Administration in Participating Countries Discussion
 - developmental policy of private industry
 - modernization of educational system
 - improvement of human resource management in the public sector

* Chairpersons and reporters will be nominated by participants. The reporters are obliged to report the conclusions of their discussions at the concluding discussion session.

5. QUALIFICATION OF APPLICANT

- 1) governments officer promising to be a senior member of the staff in the national government offices, and be related with policy formation
- 2) university graduate or equivalent, with occupational experience of more than five years in public administration (at lease two years of experience in the government)
- 3) not less than 30, and not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) National Personnel Authority

No. 10

SEMINAR ON NATIONAL GOVERNMENT ADMINISTRATION (SENIOR CLASS OFFICIALS)

1. PURPOSE

The purposes of this seminar are:

- 1) to introduce participants to recent trends in public administration and policy formation
- to assist them in considering ways to refine public administration in order to assure the creation of flexible and adequate policy formation and implementation appropriate to economic and social development.

2. DURATION

From October 19, 1993 to November 21, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

As the targeted period of development, this seminar focuses on take-off stage of modernization referring to Japanese experience in the era of her high-speed economic growth after W.W.II.

It covers the following topics.

- modernization of government administration case study
 - public facilities
 - research & development

policy formation

- intervention by the government for development
- industrial policy
- research & development
- role of administration for development
- 2) economic and social development in the participating countries
 - economic development for developing countries
 - industrial policy for development

5. QUALIFICATION OF APPLICANT

- 1) ranked senior class official (at least director of division and who is participant in policy formation)
- university graduate or equivalent, with occupational experience of more than ten years (at least two years of experience in the government)
- 3) not less than 35, and not more than 45 years of age

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) National Personnel Authority

TRAFFIC POLICE ADMINISTRATION SEMINAR

1. PURPOSE

The purpose of the seminar is to broadly introduce traffic police administration in Japan to participants through lectures and technical visits, and also to provide opportunities to exchange information on traffic police in participating countries and to study measures to solve traffic problems of their mutual concern, thus to contribute to the betterment of traffic police administration in the developing countries.

2. DURATION

(not conducted this year)

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar covers the following topics.

- 1. General Subjects (Lecture)
 - 1) Japanese police system
 - chronological summary of road traffic measures
 - 3) application of computers by the police
- 2. Specialized Subjects (Lectures)
 - 1) Japanese Police System
 - 2) traffic accidents statistics and analysis
 - 3) traffic law enforcement
 - method for disposition of road traffic law violation
 - 5) actuality and definitive implementation of traffic control
 - 6) traffic control & monitoring system and traffic safety facilities

- 7) traffic police activities on expressways
- 8) outline of driver licence system
- 9) measures to be taken for drivers
- 10) prevention of traffic accidents and traffic engineering
- 11) structure, maintenance and management of road
- 12) vehicle safety standards
- aid to victims of automobile accidents and automobile insurance system
- 14) traffic count
- Presentation of country reports by participants and exchange of views on them among participants and related staff of NPA

5. QUALIFICATION OF APPLICANT

- 1) director or chief police superintendent who supervises or is dealing with traffic police affairs in the central police organization
- 2) university graduate or equivalent

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) Traffic Planning Division, Traffic Bureau, National Police Agency (NPA)

7. REMARKS

The course is conducted every other year. This year (in fiscal 1993) it will not be conducted; it is planned to be conducted in Japanese fiscal 1993.

SEMINAR ON CRIMINAL INVESTIGATION

1. PURPOSE

This Seminar is designed with a view to contributing to further development of knowledge and techniques of criminal investigation:

- to familiarize participants with the system, equipment, and facilities for criminal investigation and identification now in operation in Japan, and
- to provide participants with common arena for study and discussion of problems and issues concerning criminal investigation.

2. DURATION

From April 6, 1993 to April 30, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This Seminar covers the following topics.

- 1. Lecture
 - 1) police system in Japan
 - 2) outline of criminal police
 - 3) outline of international criminal investigation
 - 4) safety police activities (firearms control etc.)
 - 5) investigation of organized crime
 - 6) investigation of drug offences
 - 7) crime identification activities
- 2. Country Report Presentation and Discussion

5. QUALIFICATION OF APPLICANT

 commanding police officer (superintendent, major, or higher) in charge of criminal investigation in the central police organization

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) National Police Agency (NPA)

RESCUE AND FIRST AID TECHNIQUES

1. PURPOSE

The purpose of the course is to provide participants with opportunities to acquire high-level knowledge and skills in rescue operations in Japan so they can subsequently enhance rescue techniques of training personnel engaged in rescue service in their home countries.

2. DURATION

From August 24, 1993 to November 25, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course will be conducted mainly in the form of rescue practice on the following subjects.

- 1) physical strength development method
- 2) rope knotting
- 3) ascending, descending and traversing by rope
- 4) usage of rescue tools
- 5) entry technique
- 6) rescue technique
- 7) searching technique
- 8) first aid

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent with occupational experience
- 2) have experience in rescue service and expected to play key roles in this field
- 3) expected to become a leader in the field of rescue service
- 4) under 30 years of age in principle

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Fire Defence Agency (FDA), Ministry of Home Affairs

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

FIRE FIGHTING TECHNIQUES

1. PURPOSE

The main purposes of this training course are as follows:

- 1) to enable participants to understand the outline of organization, systems and roles of fire service administration, as well as present situation of various disasters in Japan.
- 2) to help participants acquire knowledge and techniques to rescue people and extinguish fires; e.g. buildings fires, hazardous materials (petroleum) fires, mountains and forest fires, ships fires, aircrafts fires etc., at an early stage by commanding fire fighting units at the ground, utilizing various fire engines and tools.

2. DURATION

From July 19, 1993 to November 4, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course will be conducted in the form of lectures, practical training, visits, study trips, and presentation of country reports and so on. Lectures will be given mainly by using text books and audio visual equipment such as video tapes and films. Practical training will be given by utilizing all kinds of fire engines, fire fighting equipment and tools.

The training course is programmed to provide following knowledge and techniques:

- 1) rescuing people from different types of fires promptly and controling fires by commanding fire fighting units effectively
- 2) roles and functions of fire engines and equipment in Japan
- 3) outline of the history and systems of fire service administration in Japan
- 4) present situation of disaster, and measures to cope with disasters caused by urbanization
- 5) roles of fire service organizations and activities of fire fighting personnel in Japan
- 6) fire service administration of the participating countries by comparing and discussing the present situation of fire service administrative activities of respective countries

5. QUALIFICATION OF APPLICANT

- 1) presently engaged in fire service, have at least five years' experience
- 2) university graduate or equivalent
- 3) 40 years of age or less

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Fire Defence Agency, Ministry of Home Affairs
- 3) Kitakyushu City Fire Department, Fire Training Centre

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 75 hours.

FIRE SERVICE FOR ADMINISTRATIVE OFFICERS

1. PURPOSE

The purpose of this course is to provide the participants with opportunities for studying administrative methods such as fire defence setups, system and fire personnel training & education through lectures, about and observations of Japanese fire service activities, and through exchanging opinions about issues in the participating countries through seminars, thereby contributing to further fire service improvement in each country.

2. DURATION

From September 13, 1993 to November 7, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the following major subjects will be covered through lectures, country report and field trips.

- 1) administrative functions
 - effective administrative systems in fire service
 - optimum standards for fire equipment and personnel
 - effective communication & cooperation among fire authorities
- 2) fire service personnel
 - improving capabilities of fire personnel
 - development and improvement of fire protection equipment
- 3) dissemination of fire protection awareness
 - fire education for school children and citizens
 - current status of fire insurance
- 4) promotion of fire prevention
 - consent to & control over facilities and their management
 - control of hazardous materials
- volunteer fire corps
 - fire equipment standards and on-duty casualty compensation systems
 - linkage with volunteer fire corps

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent with occupational experience
- 2) under 40 years of age
- administrative officer or candidate for administrative officer, who is presently engaged in planning/ drafting of Fire Service Systems, or in work in administrative sections for Fire Service Implementation

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- 2) Fire Defence Agency (FDA)

DISASTER PREVENTION TECHNOLOGY

1. PURPOSE

The purpose of this course is to provide the participants with opportunities for studying disaster prevention administrative methods such as fire defense setup, systems and fire personnel training and education through lectures and observations, referring to Japanese fire service activities. The course will include seminars for the exchange of opinions about issues among participating countries, thereby contributing to further fire service improvement in each country.

2. DURATION

From October 12, 1993 to December 5, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The following major subjects will be covered in the course:

- 1) legislation governing disaster prevention
- 2) present status of disaster prevention systems
- 3) operation of disaster prevention systems
- 4) disaster information
- 5) role of fire service in disaster prevention
- 6) trend of recent disasters
- 7) improvement of disaster prevention system

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) administrative officer or a person belonging to fire defense organization presently engaged in planning/drafting of Fire Service System, or in administrative section for the service implementation
- 3) not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Fire Defence Agency (FDA), Ministry of Home Affairs

FIRE PREVENTION TECHNICS

1. PURPOSE

The course is designed for administrative officer or candidate engaged in planning/drafting of Fire Service System, in order to upgrade the knowledge about the Japanese administration for fire fighting and disaster prevention and the activities to prevent fires and natural disasters through lectures and observations.

2. DURATION

From September 20, 1993 to December 9, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In the course, the emphasis is put on lectures, practical training and observations. The main theme are:

- 1) system of fire services and preventing disasters in Japan
- 2) system to prevent fires in advance
- 3) system to prevent natural disasters

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent with occupational experience
- 2) administrative officer or candidate for it, who is presently engaged in planning/drafting of Fire Service System, or in administrative section for Fire Service Implementation
- 3) not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Nagoya City Fire Department
- 3) Fire Stations in Nagoya City

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

No. 17

GOVERNMENT AUDITING SEMINAR (COMPUTER AUDITING)

1. PURPOSE

The purpose of this seminar is to give SAI auditors an opportunity to study and discuss computer audit aspects and techniques and thus contributes to SAI auditors audit capabilities in this field.

2. DURATION

From June 21, 1993 to July 25, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar aims to introduce Japan's experience in computer auditing. The main themes are:

- 1) computer system in the Board of Audit
- 2) system audit and case study
- 3) evaluation of computer system
- 4) audit of computerized system
- 5) computer-assisted audit techniques

5. QUALIFICATION OF APPLICANT

- 1) official of the Supreme Audit Institution, who have no less than ten years of audit experience
- 2) have basic knowledge of computer
- 3) have actual work experience of computer auditing
- 4) under 45 years of age

6. TRAINING INSTITUTIONS

- i) Hachioji International Training Centre (HITC), JICA
- 2) Board of Audit

SEMINAR ON TAXATION (GENERAL TAX COURSE)

1. PURPOSE

The purposes of this seminar are to contribute to the improvement of the tax systems and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration, and to have participants well-versed in Japanese tax administration, and to promote mutual understanding among participating countries.

2. DURATION

From August 30, 1993 to December 5, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar places major emphasis on the administration of internal taxes, and mainly covers:

- 1) public finance of Japan
- 2) outline of the Japanese tax system
- 3) outline of main taxes in Japan
- 4) operation of taxation department
- 5) efficient examination
- 6) tax dispute

5. QUALIFICATION OF APPLICANT

- 1) official of the department in charge of tax administration except customs
- 2) under 40 years of ago
- 3) have more than five years of occupational experience in tax administration or in planning of tax system
- 4) university graduate or equivalent

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- 2) National Tax Administration

SEMINAR ON TAXATION (SENIOR TAX COURSE)

1. PURPOSE

This seminar is conducted with the following purposes:

- to contribute to the improvement of the tax system and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration.
- 2) to have participants well-versed in Japanese tax administration, and to promote friendly relations among participating countries, including Japan.

2. DURATION

From September 12, 1993 to October 9, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This seminar places major emphasis on the administration of internal taxes.

It covers the following topics.

- 1) outline of public finance, tax system and tax administration in Japan
 - (1) public finance of Japan
 - (2) outline of Japanese tax system
 - (3) tax administration in Japan (general introduction)
 - (4) tax administration in Japan (detail)
 - (i) system of assessment
 - (ii) system of collection
 - (iii) public relations on taxation
 - (5) international taxation
- 2) presentation of country reports and round discussion topics of round table discussion:
 - (1) system of assessment
 - (2) system of collection

5. QUALIFICATION OF APPLICANT

- 1) ranked as a senior-class official of the department in charge of tax administration except customs
 - (Note) This seminar is designed for the Deputy Commissioner or Assistant Commissioner of the Head Office, the Commissioner or the Deputy Commissioner of the Regional Taxation Bureau, or the District Director of the Tax Office.

6. TRAINING INSTITUTIONS

- 1) Institute for International Cooperation (IFIC), JICA
- 2) National Tax Administration

CUSTOMS TECHNIQUES II

1. PURPOSE

The purpose of the course is to contribute to the development and improvement of the Customs techniques in developing countries through introducing Japanese Customs system and techniques and carrying out comparative studies.

At the same time, it aims at deepening mutual understanding and promoting friendly relationship among participating countries and Japan.

2. DURATION

From August 31, 1993 to October 27, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course covers following subjects;

- 1) organization and function of the Japanese Customs Administration
- 2) Customs and tariff policy, the revision of tariff rates
- export and import clearance procedures and those for postal items and containerized cargoes, and computerized clearance system
- 4) classification techniques under the Harmonized System
- 5) "Hozei" (bond) area system
- differences between the GATT Valuation code and Brussels Definition of Value, and characteristics and modus operandi of the GATT Code
- 7) surveillance and control
- 8) provisions and Customs powers in connection with Customs offences, and the system for legal disputes and appeals concerning Customs administration

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) currently Customs officials at middle level
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Custom and Tariff Bureau, Ministry of Finance
- 3) Tokyo, Yokohama, Kobe, Osaka and Nagoya Custom House

ENVIRONMENTAL POLICY

1. PURPOSE

The purpose of the course is to introduce through lectures and observation of facilities the Japanese comprehensive measures on environmental issues to the administrators who are in charge of policy making on environmental administration in developing countries.

This course is also aimed at making a contribution to the progress of environmental administration in developing countries by means of exchanging opinions concerning to the present conditions and prospects on environmental administration of each country.

2. DURATION

From October 4, 1993 to November 26, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course is so designed that the participants would (1) understand the overall Japanese environmental administration including the technical progress, and (2) acquire the knowledge to manage the environmental administration of their countries in consideration of global environmental problems.

The main subjects (tentative) are as follows:

- 1) framework and historical, technological background of Japanese environmental administration
- 2) economic approach to environmental administration
- 3) attitude toward global environmental problems both in Japan and other countries
- 4) environmental impact and development
- 5) technological field of environmental measurement (observation)
- 6) development site (observation)
- 7) present conditions and prospects in developing countries
- 8) action plan

5. QUALIFICATION OF APPLICANT

- 1) presently engaged directly in policy-drafting in environmental administration in the governmental or related public organization with experience of at least five years
- 2) university graduate or equivalent
- 3) under 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Global Environmental Department, Environmental Agency
- 3) Japan Environmental Sanitation Center

ENVIRONMENTAL ENGINEERING (WATER POLLUTION CONTROL)

1. PURPOSE

The main purpose of the course is to provide technical officials with professional knowledge and techniques required for environmental engineering, especially water pollution control. The course is also intended to introduce Japanese experiences and the current conditions in the field of water pollution control and to provide the participants with principles and approaches for problem solution.

2. DURATION

From September 6, 1993 to October 28, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course is focused on the introduction of Japanese administration in water pollution control and the exchange of information among participants, therefore the course is conducted mainly in the form of lectures, discussions, and observation tours.

The following major subjects will be covered in the course: 1) environmental sanitation and framework of water pollution control in Japan, 2) present situation in participating countries, 3) planning and implementation of water pollution control, 4) technologies for waste and wastewater management, 5) effects of water pollution on water use and its countermeasures

5. QUALIFICATION OF APPLICANT

- technical official presently in charge of water pollution control administration including domestic and industrial wastewater management in central or local governments with more than three years of experience in this field
- 2) university graduate or equivalent
- 3) not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Water Quality Bureau, Environment Agency
- 3) Japan Society on Water Environment

ENVIRONMENTAL ENGINEERING (AIR POLLUTION CONTROL)

1. PURPOSE

The purpose of the course is to contribute to the improvement of the air pollution control policy making in the participating countries from technical point of view also covering socio-economic development and welfare aspects by giving technical training through lectures and observation tours on general condition of air pollution control.

2. DURATION

From January 24, 1994 to March 13, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course aims to present Japanese experience in this field as a case study for preparation of comparative study and action plan.

It mainly covers;

- 1) administration
- 2) principles of air pollution subjects
- 3) planning and countermeasures
- 4) measurement and assessment
- 5) comprehensive study

5. QUALIFICATION OF APPLICANT

- technical official directly responsible for air pollution control administration at central or local governmental organizations and have more than three years of experience,
- 2) university graduate or equivalent

6. TRAINING INSTITUTIONS

- 1) Hachioji International Training Centre (HITC), JICA
- 2) Environment Agency
- 3) Japan Environmental Sanitation Center

ENVIRONMENTAL MONITORING (WATER QUALITY)

1. PURPOSE

The purpose of the course is to develop the knowledge of senior government researchers and technical officials who are engaged in water quality monitoring for the promotion of preventive measures against water pollution.

Through participation in this course, the participants will learn methods of planning water quality monitoring and fundamental techniques of water quality analysis as applied to rivers, lakes, reservoirs, and estuaries. Special applications for water-use facilities will also be covered.

2. DURATION

From September 20, 1993 to November 13, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course is aimed to introduce methods of planning water quality monitoring, techniques of analyzing water pollutants, and administrative management of monitoring, therefore the course mainly consists of lectures, discussions, demonstration and laboratory exercise, and field-trips.

The following major subjects will be covered in the course: 1) environmental administration in Japan, 2) significance of water quality monitoring, 3) water quality monitoring planning, 4) water quality analytical measurement techniques, 5) utilization of analytical data on water quality

5. QUALIFICATION OF APPLICANT

- university graduate who majored in chemistry, chemical engineering, environmental engineering, environmental science, or equivalent
- senior government researcher or technical official with more than three years of occupational
 experience in the field of water pollution research and administration at the agencies of national or
 local governments, with emphasis on water quality monitoring
- 3) not less than 25 and not more than 35 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) National Environmental Training Institute, Environment Agency

NATURE CONSERVATION AND NATURAL PARKS MANAGEMENT

1. PURPOSE

The purpose of the course is to provide government/technical officials in charge of nature conservation and/or management administration with the professional knowledge and techniques required for nature conservation and natural parks management. The course is also intended to introduce the Japanese experience and current conditions in this field and to provide the participants with principles and approaches for problem solution.

2. DURATION

From September 13, 1993 to October 17, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course is focused on the introduction of Japanese administration in nature conservation and natural parks management and the information exchange among participants; therefore, the course is mainly conducted in the form of lectures, discussions, and observation tours.

The following major subjects will be covered in the course: 1) basic concepts and framework of nature conservation and natural parks management, 2) present situation in participating countries, 3) techniques for research on nature, 4) management of nature

5. QUALIFICATION OF APPLICANT

- technical official presently in charge of nature conservation and/or management administration in central or local governments with five or more years of experience in this field
- 2) university graduate or equivalent
- 3) not more than 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Nature Conservation Bureau, Environment Agency
- 3) Japan Wildlife Research Center

LAKE WATER QUALITY MANAGEMENT

1. PURPOSE

This course is intended for technical administrators and leading researchers engaged in establishment and implementation of policies and measures for preservation and management of water quality of lakes (natural and artificial) in developing countries.

Techniques needed for water quality management of lakes, such as measurement, prevention, estimation and control techniques at higher level, will be introduced to the participants through lectures and practices. It is expected of them to acquire fundamental knowledge required for making plans and programmes for proper management of lake water quality. It is hoped that this course will contribute to the qualitative improvement and sound development of environmental conservation of lakes and reservoirs in developing countries.

2. DURATION

From January 6, 1994 to March 27, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on workshop practice.

The main themes are:

- 1) lectures
 - environmental problems related to lakes and reservoirs
 - water pollution prevention techniques
 - water quality management
 - water pollution estimation techniques
 - environment management techniques
 - administrative measures for environmental preservation
- 2) practices
 - water treatment techniques
 - measurement techniques
 - environment management techniques

5. QUALIFICATION OF APPLICANT

- technical administrator in charge of management of water quality measurement laboratories (with occupational experience of at least five years) who is expected to assume executive administrative posts in the field of water quality management in the future.
- 2) university graduate having majored in analytical chemistry or microbiology, or those with equivalent technical knowledge
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Osaka International Training Centre (OITC), JICA
- 2) International Lake Environment Committee

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

SYSTEM OF ENVIRONMENT MANAGEMENT ON ENCLOSED COASTAL SEAS

1. PURPOSE

The purpose of the course is to provide the officials in administrative bodies which are engaged in the environmental management of enclosed coastal seas with the following aspects: (1) technical knowledge related to environmental management strategies specifically applied to Seto Inland Sea, which would give the participants opportunities to examine possible applicabilities of these strategies to their respective countries. (2) an opportunity in which the participants can discuss with Japanese expert in environmental management field and exchange views and opinions.

2. DURATION

From September 16, 1993 to December 3, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip.

- 1) general view
- 2) phenomena and mechanism of water pollution
- 3) modeling
- 4) investigation and measurement
- 5) management techniques
- 6) environmental management policies
- 7) public awareness

5. QUALIFICATION OF APPLICANT

- leading officer in administrative body presently engaged in environmental management of enclosed coastal seas and coastlines
- 2) university graduate and/or those who have equivalent practical experience of not less than three years in the field of environment on enclosed coastal seas
- 3) not less than 26, and not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Hyogo International Centre (HIC), JICA
- 2) Environmental Conservation Association of Seto Inland Sea
- 3) Environmental Science Institute of Hyogo Prefecture

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for about 50 hours.

MARINE ENVIRONMENT PROTECTION

1. PURPOSE

The course is organized for the officials who are engaged, by profession, in the protection of marine environment. The course introduces technology and developments in the subject area and gives description on the method of control and investigation of illegal discharge of dumping; and organization and activities of our government agencies and private organizations concerned with the protection of marine environment and the safety at sea.

2. DURATION

From August 19, 1993 to November 22, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures and laboratory work, focusing on surveillance and analysis of oil.

The main themes are:

- 1) protection of marine environment
- 2) discrimination and identification of oil
- 3) oil sample analysis

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent, or have an occupational experience of more than five years in the field of marine pollution prevention,
- 2) presently engaged in the above-mentioned field,
- 3) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Okinawa International Center (OIC), JICA
- 2) Maritime Safety Agency
- 3) 11th Regional Headquarters of Maritime Safety Agency

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for ten days.

AIR POLLUTION CONTROL

1. PURPOSE

This course is intended for administrative engineers and leading researchers engaged in the air pollution control measures in developing countries. Measurement techniques, emission source control techniques, dispersion calculation techniques, management, etc. related to air pollution, all on an advanced level, will be introduced to the participants. It is expected that the course will help upgrade the technical ability of the participants, thus contribute to the prevention of environmental pollution in their respective countries.

2. DURATION

From July 8, 1993 to October 30, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on workshop practice at laboratory experiments and introduction of Japanese experience.

The main themes are:

- 1) fundamentals of air pollution
- 2) measurement technique
- 3) emission source control
- 4) management
- 5) application of dispersion models
- 6) planning of master plan related to comprehensive airpollution control

5. QUALIFICATION OF APPLICANT

- administrative engineer who have at least five years experience in the administration of air pollution prevention
- 2) between 30 and 40 years of age

6. TRAINING INSTITUTIONS

- 1) Osaka International Training Centre (OITC), JICA
- 2) Foundation of Global Environment Centre
- 3) Environment Division, Environment and Public Health Burcau, Osaka Municipal government
- 4) Osaka City Institute of Public Health and Environmental Science

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

AIR POLLUTION SOURCE MONITORING PRACTICE

1. PURPOSE

The purpose of the training course is to upgrade the technical skills of personnel who are currently engaged in air pollution monitoring practice.

2. DURATION

From September 6, 1993 to December 22, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of Japanese experience on air pollution control through the air pollution monitoring practice such as ambient air and automobile exhaust gas, in order to acquire the knowledge and skills to enable participants to apply them to each country.

The subject covered in the course are:

- 1) basic theory on local administration
- 2) basic theory on environmental engineering and health effect by air pollution
- 3) administrative framework on air pollution control in Kitakyushu and Japan
- 4) practical training on ambient air quality monitoring
- 5) air pollution monitoring by biological methods
- 6) practical training on air pollution source monitoring
- 7) simulator operation in coal-fired thermal power station
- 8) monitoring methods of automobile exhaust gas

5. QUALIFICATION OF APPLICANT

- .1) technical administrator who have three or more years of experience in air pollution source monitoring and/or equivalent technical knowledge
- 2) university graduate or equivalent
- 3) 40 years of age or less

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Kitakyushu International Techno-cooperative Association
- 3) Kitakyushu City Government

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 25 hours.

MEASURES TO REDUCE THE USE OF THE OZONE DEPLETING SUBSTANCES

1. PURPOSE

The purpose of the course is to provide participants with the latest scientific knowledge and information, a legal framework and other policy measures, substitutes and alternative technologies, in relation to reducing the use of O.D.S.

2. DURATION

From January 25, 1994 to February 27, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The participants are expected to acquire knowledge and information on the following:

- 1) state of ozone science and its research
- 2) outline of the Vienna Convention and the Montreal Protocol
- 3) policy measures for the protection of the ozone layer
- 4) substitutes for controlled substances
- 5) alternative technologies to reduce consumption of ozone depleting substances

5. QUALIFICATION OF APPLICANT

- presently engaged in a Government organization administering either industrial policy or environmental policy related to CFCs or other ozone depleting substances
- 2) university graduate or equivalent
- 3) from 30 to 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Ministry of International Trade and Industry
- 3) Japan Industrial Conference for Ozone Layer Protection (JICOP)

No. 32 環境放射能分析

ENVIRONMENTAL RADIOACTIVITY ANALYSIS AND MEASUREMENT

1. PURPOSE

The purpose of the course is to give the participants practical knowledge of environmental radioactivity analysis and measurement, and to give them an opportunity to learn the relevant techniques through lectures and practical exercises.

2. DURATION

From September 13, 1993 to October 24, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course is aimed to introduce technology of environmental radioactivity analysis and measurement in Japan; therefore, the course mainly consists of lectures, laboratory exercises, and observation.

The following major subjects will be covered in the course: 1) basic concepts, 2) sampling and pretreatment, 3) analysis and measurement for toritium, radioactive strontium, uranium and plutonium in environmental samples, 4) gamma ray spectrometry, 5) environmental gamma ray dae measurement

5. QUALIFICATION OF APPLICANT

- 1) university/college graduate in science or technology, or equivalent
- working or going to work in organization concerned with environmental radioactivity analysis and measurement fields

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Japan Chemical Analysis Center (JCAC)

ENVIRONMENTAL IMPACT ASSESSMENT

1. PURPOSE

In order to promote sustainable development in the world, it is imperative to execute appropriate environmental impact assessments. The purpose of the course is to transfer fundamental knowledge and technology on EIA to technical administrators from participating countries through lectures on experiences of conducting EIA in recent years both in Japan and other countries, field trips, and discussions with experts practicing EIA in Japan.

2. DURATION

From May 31, 1993 to June 27, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The course is focused on introduction of Japanese administration and technologies in EIA, activities of international organizations regarding with EIA, and information exchange among participants; therefore, the course mainly consists of lectures, discussions, and observation tours.

The following major subjects will be covered in the course is: 1) introduction to EIA, 2) EIA system and practice in Japan, 3) topics related to EIA (wildlife survey, infectious disease, communication techniques), 4) technology for EIA, 5) institutional framework for EIA

5. QUALIFICATION OF APPLICANT

- technical administrator presently engaged in EIA in governmental or related public organization with experience of at least three years
- 2) university graduate or equivalent
- 3) under 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Planning and Coordination Bureau, Environment Agency
- 3) Overseas Environmental Cooperation Center

INDUSTRIAL POLLUTION CONTROL ENGINEERING

PURPOSE

Keeping abreast of industrialization and urbanization in developing countries, environmental pollution problems have been increasing. Therefore, it is indispensable for those countries to develop countermeasures against industrial pollution.

The purpose of this course is to enhance the capability of engineers who have an experience handling the environmental problems.

2. DURATION

From June 14, 1993 to October 21, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

Participants will attend lectures, training and factory tours to understand the past and present environmental problems in Japan, as well as prevention and control measures executed by corporations. Through the study in this course, participants will acquire basic knowledge, information and technology required for planning the environmental administrative measures suitable for respective countries, and further, finding the solutions for preventing the environmental pollution.

The major subjects covered in the course are:

- 1) health effects of environmental pollutants
- 2) environmental engineering
- 3) environmental administration
- 4) environmental pollutants measuring method
- 5) international cooperation in the field of environment
- 6) environmental pollution control measures taken by industries
- 7) measures for improving working environment

5. QUALIFICATION OF APPLICANT

- 1) have three years' occupational experience or more in the field of Industrial Pollution Control
- 2) university graduates (faculty of engineering) or have the equivalent academic background
- 3) 40 years of age or less

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Kyushu International Techno-cooperative Association
- 3) Kyushu Institute of Technology
- 4) University of Occupational and Environmental Health, Japan
- 5) Kitakyushu Municipal Government

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 25 hours.

INDUSTRIAL POLLUTION CONTROL RESEARCH

1. PURPOSE

The purpose of this course is to contribute to upgrading knowledge and techniques of scientists and researchers in the field of pollution control engineering, including computer technology through lectures, exercise, practical training and observation tours.

2. DURATION

From August 23, 1993 to December 19, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course consists of common subjects for all participants and individual training at laboratory. Each participant is to take one of the following subjects for their individual research:

- 1) Flue Gas deNOx Technology,
- 2) Control Technology for SOx & NOx during Pulverized Coal Combustion.
- 3) SOx and NOx abatement Techniques of Circulating Fluidized Bed Combustion.
- 4) Advanced Measurement Technology in Coal Combustion Research.
- 5) Acquisition and Processing of Data on Atmospheric Environment.
- 6) Simulation Models of Air Pollution,
- 7) Ecological Modelling and Ecological Analysis of Costal Environments.
- 8) Catalytic Hydrocarbon Reactions for Air Pollution Control.
- 9) Practical Measurement of Environmental VOC Using Gas Chromatograph.
- 10) Biodegradation of Chemical Substances and Application.
- 11) Oxidative Degradation of Organic Compounds in Wastewater
- 12) Determination of Inorganic and/or Organic Pollutants in Water.
- 13) Production of Liquid Fuel from Biomass
- 14) Carbon Dioxide Fixation by Artificial Photosynthesis (The above subjects may be subject to change.)

5. QUALIFICATION OF APPLICANT

- 1) scientist or engineer in the field of pollution control technology with more than three years occupational experience
 - Generally, administrative officers are not qualified for this course.
- 2) university graduate or equivalent
- have the knowledge of computer programming with FORTRAN or BASIC languages in the course of simulation technology
- 4) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tsukuba International Centre (TBIC), JICA
- 2) National Research Institute for Pollution Resources (NRIPR)

INDUSTRIAL WASTE WATER TREATMENT TECHNIQUE

1. PURPOSE

In industrializing countries the environmental pollution due to industrial wastewater has become a serious problem. The purpose of this course is to enhance the capabilities of managers and engineers in charge of pollution control so as to take the appropriate and cost-effective actions for solving pollution problems.

2. DURATION

From July 26, 1993 to December 8, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of Japanese experience for dealing with practical industrial wastewater treatment through lectures, discussions, practice, field studies and visits to related factories and industries.

The major subjects covered in the course are:

- 1) introduction to water pollution prevention
- 2) basic theory of wastewater treatment
- 3) wastewater analysis
- 4) automatic control
- 5) fundamental planning of wastewater facilities
- 6) design and construction of wastewater treatment facilities
- 7) maintenance management of wastewater treatment facilities
- 8) wastewater control in enterprises

5. QUALIFICATION OF APPLICANT

- either engineer in charge of wastewater treatment in governmental or municipal office, or site manager of these organization in charge of the field
- 2) university graduate specialized in chemical, mechanical, electrical or civil engineering or have the equivalent academic background
- 3) 40 years of age or less

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Kitakyushu International Techno-cooperative Association
- 3) Kyushu Institute of Technology
- 4) Kitakyushu Municipal Government

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 25 hours.

DOMESTIC WASTE WATER TREATMENT TECHNIQUE

1. PURPOSE

The purpose of this training course is to upgrade the administrative and managerial skills of technical administrators who are currently engaged in domestic wastewater treatment.

2. DURATION

From August 30, 1993 to December 16, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The training programme which is rather comprehensive consists of lectures, exercise and study tours. However, the emphasis is put on making action plan in each participants' country and introduction of Japanese experiences.

The subjects covered in the course are:

- 1) basic theory on local administration
- 2) basic theory on water quality conservation
- 3) administrative framework on water pollution control in Kitakyushu and Japan
- 4) basic exercise on water quality analysis
- 5) practical training on water supply
- 6) practical training on sewage/drainage treatment
- 7) practical training on human excreta treatment
- 8) practical training on jokaso system
- 9) outline of domestic refuse treatment
- 10) outline of river/waterway management in urban area

5. QUALIFICATION OF APPLICANT

- technical administrator who have three or more years of experience in domestic wastewater treatment and/or equivalent technical knowledge
- 2) university graduate or equivalent
- 3) 40 years of age or less

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Kyushu International Techno-cooperative Association
- 3) Kitakyushu City Government

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 25 hours.

PRACTICAL STATISTICS II

1. PURPOSE

This course is focused on the training needs of official statisticians in government and is intended to contribute to the strengthening of National Statistical Offices of the developing countries in the ESCAP region.

2. DURATION

From September 20, 1993 to March 27, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty-three (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course consists of common subjects for all participants (for first three months) and individual project work (for latter three months).

The common subjects concentrate on the following methodological aspects of statistics:

- 1) data collection
- 2) summarization and presentation of data
- 3) interpretation, analysis and dissemination

For the project work, each participant is to choose one of the following topics, and write a report on it for presentation at a seminar. They should choose a topic which is related to official statistics of their country.

- a) demographic analysis
- b) economic statistics and applied analysis
- c) national accounts
- d) statistical methods and sampling

5. QUALIFICATION OF APPLICANT

- 1) university graduate specialized in statistics, economics or sociology or equivalent
- 2) over 25 but under 35 years of age
- 3) have a sufficient knowledge of basic mathematics

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- 2) Statistical Institute for Asia and the Pacific (SIAP)

7. REMARKS

This course is conducted according to the agreement between the Government of Japan and the United Nations Development Programme, and organized mainly for ESCAP countries.

AUTOMATIC DATA PROCESSING FOR STATISTICIANS

1. PURPOSE

This course is geared for practicing statisticians who have responsibilities for statistical compilation and analysis and who will benefit from a better understanding of the potentialities and limitations of the use of computers in statistical work.

The course is aimed at instructing participants in the operations and functions of modem computing equipment and in the potentialities of available software for use in statistical computing, including the recording, storing, processing and retrieval of data for the purpose of statistical analysis. An introduction to systems analysis and design will also be provided.

2. DURATION

From May 11, 1993 to July 18, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The curriculum consists of the following major subjects.

- 1) introduction to computing
- 2) data management and presentation and Transfer of data between different software packages through the use of dBASE and Lotus 1-2-3
- 3) statistical Analysis using SAS or SPSS
- 4) practical work

5. QUALIFICATION OF APPLICANT

- 1) middle level statisticians with little or no experience in statistical computing
- 2) under 40 years of age
- 3) university graduate in statistics of equivalent

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- Statistical Institute for Asia and the Pacific (SIAP)

7. REMARKS

This course is conducted according to the agreement between the Government of Japan and the United Nations Development Programme, and organized mainly for ESCAP countries.

ELECTRONIC DATA PROCESSING FOR GOVERNMENT INFORMATION ACTIVITIES

1. PURPOSE

The purpose of this course is to provide participants with the fundamental knowledge and methodology necessary for overall management, promotion and coordination of GIS, and to train such participants to implement GIS efficiently in their respective countries.

2. DURATION

From January 10, 1994 to March 9, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course mainly consists of lectures and individual research work.

The main topics of the lectures are:

- 1) present situation and policies for overall management and coordination of GIS
- 2) basic matters for construction of GIS (database, network, office automation, systems security, etc.)
- 3) trends of new information-oriented society (freedom of information, protection of privacy, etc.)
- 4) latest information technologies

At the end of the course, each participant is to present the report written in their individual work.

5. QUALIFICATION OF APPLICANT

- official who belongs to a government body responsible for overall management and coordination
 of Government Information Systems, or a government body in a state of planning, which shall be
 responsible or considered suitable for the task mentioned above
- 2) have the knowledge and skills in computer data processing, preferably with experiences in developing and/or managing Government Information Systems
- 3) under 40 years of age
- 4) university graduate or equivalent

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- Office of Government Information systems Planning Division, Administrative Management Bureau, Management and Coordination Agency

INFORMATION PROCESSING PERSONNEL (SENIOR PROGRAMMER MAINFRAME BASED)

1. PURPOSE

This course is designed to train personnel who will be chief programmers for programmer teams. Through the lectures, workshop, and observation tours, the course introduces the programming skills, basic knowledge and methodology of system development with online database environment, and so forth

2. DURATION

From June 24, 1993 to October 25, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are:

- 1) Hardware Introduction
- 2) OS (Operating System) Introduction
- 3) Module Design
- 4) Test Planning
- 5) Programme Structure Design
- 6) Online Database System Introduction
- 7) Database Programming
- 8) TSS (Time Sharing System) Usage
- 9) JCL (Job Control Language) Usage
- 10) Database Design

- 11) Online Programming
- 12) Online Application System Design
- 13) Data Communication Network Introduction
- 14) System Development Outline
- 15) System Development Workshop
- 16) Introduction to Personal Computer
- 17) CASE (Computer Assisted Software Engineering) Introduction
- 18) Advanced Computer Technology

5. QUALIFICATION OF APPLICANT

- 1) university graduate or have the equivalent knowledge in the field
- have one to five years experience in system development and maintenance, and have more than three years programming experience in at least one of programming languages as COBOL, FORTRAN, PL/I
- 3) being able to make a programme in COBOL
- 4) have experience in system design by using conventional files
- 5) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (PERSONAL COMPUTER PROGRAMMER)

1. PURPOSE

This course is designed to train personnel who works with personal computers in the office. Through lectures, workshop and observation tours, this course introduces concepts, basic knowledge and technical skills required for implementing small-scale information processing systems with personal computers.

2. DURATION

From August 5, 1993 to December 2, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, computer exercise, system development workshop.

The main themes are:

- i) spreadsheet spreadsheet
- ii) BASIC programming
- iii) database
- iv) system development workshop

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) have a half years to two years programming experience which includes programming in software packages, such as database, spread sheet, and so forth
- 3) under 31 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (PERSONAL COMPUTER NETWORK SYSTEM DESIGNER (A))

1. PURPOSE

This course is designed to train personnel who work with personal computers and will implement personal computer network system as a LAN (Local Area Network). Through lectures, workshop and observation tours, this course introduces function and designing method of personal computer network systems and LAN systems.

2. DURATION

From April 15, 1993 to August 16, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are:

- 1) personal computer introduction
- 2) spreadsheet
- 3) C programming
- 4) database
- 5) PC system design
- 6) test planning
- 7) network design outline
- 8) PC network system design
- 9) PC networking usage
- 10) UNIX fundamentals
- 11) PC networking usage
- 12) system development workshop
- 13) case study
- 14) CASE introduction
- 15) advanced computer technology

5. QUALIFICATION OF APPLICANT

- 1) person with one to three years experience in system development and maintenance
- 1)' have more than three years' experience in programming in any one of programming language such as C, BASIC and so forth
- 2) university graduate or equivalent
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

Grand Control of the American

No. 44

INFORMATION PROCESSING PERSONNEL (PERSONAL COMPUTER NETWORK SYSTEM DESIGNER (B))

1. PURPOSE

This course is designed to train personnel who work with personal computers and will implement personal computer network system as a LAN (Local Area Network). Through lectures, workshop and observation tours, this course introduces function and designing method of personal computer network systems and LAN systems.

2. DURATION

From November 25, 1993 to April 3, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation torus.

The main themes are;

- 1) personal computer introduction
- 2) spreadsheet
- 3) C programming
- 4) database
- 5) PC system design
- 6) test planning
- 7) network design outline
- 8) PC network system design
- 9) PC networking usage
- 10) UNIX fundamentals
- 11) PC networking usage
- 12) system development workshop
- 13) case study
- 14) CASE introduction
- 15) advanced computer technology

5. QUALIFICATION OF APPLICANT

- 1) person with one to three years experience in system development and maintenance
- have more than 3 years' experience in programming in any one of programming language such as C, BASIC and so forth
- 2) university graduate or equivalent
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

No. 45

INFORMATION PROCESSING PERSONNEL (INSTRUCTOR (PERSONAL COMPUTER BASED))

1. PURPOSE

This course is designed to train personnel who are presently or will be engaged in programmer training using personal computers. Through the lectures, workshop, observation tours and training as an instructor, this course introduces both the technical skills such as programming, system design and development under personal computer environment, and instruction skills including educational material development.

2. DURATION

From April 22, 1993 to October 7, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are;

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- 2) OS (Operating System) introduction
- 3) programme structure design
- 4) module design
- 5) test planning
- 6) database
- 7) C programming
- 8) UNIX fundamentals
- 9) network design outline

- 10) PC network system design
- 11) PC networking usage
- 12) system development outline
- 13) system development workshop
- 14) instructor training I ~ IV
- 15) case study
- 16) CASE introduction
- 17) advanced computer technology

5. QUALIFICATION OF APPLICANT

- 1) (i) person with one to three years experience in system development and maintenance
 - (ii) person with more than three years' experience in programming in ay one of programming language as C, BASIC, and so forth.
- 1)' person who will be an instructor for personal computer programmers training
- 2) university graduate or equivalent
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (INSTRUCTOR (MAINFRAME BASED))

1. PURPOSE

This course is designed to train the personnel who are presently or will be engaged in programmer training using mainframe. Through the lectures, workshop, observation tours and training as an instructor, this course introduces both the technical skills such as programming, system design and development under online database environment using mainframe computer, and instruction skills such as design, development and presentation of the training courses.

2. DURATION

From October 7, 1993 to March 28, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise and workshops.

The main themes are:

- i) database programming
- ii) online programming
- iii) system development workshop
- iv) instructor training

5. QUALIFICATION OF APPLICANT

- university graduate with more than one to three years experience in system development and maintenance
- 2) have more than three years experience in programming in any one of programming languages; such as COBOL, FORTRAN, PL/I, etc., and being able to make a programme in COBOL
- 3) person who will be a instructor for programmers training
- 4) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

No. 47

INFORMATION PROCESSING PERSONNEL (SENIOR SYSTEM ANALYST/DESIGNER (A))

1. PURPOSE

This course is designed to train the personnel who are presently or will be system analysts and designers. Through the lectures, group exercises and observation tours, this course provides the knowledge and skills necessary for analyzing, designing, developing and evaluating an online database system, and way of project management.

2. DURATION

From May 6, 1993 to August 16, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops.

The main themes are:

- i) system analysis/design subjects
- ii) system estimation/evaluation subjects
- iii) project management subjects

5. QUALIFICATION OF APPLICANT

- 1) university graduate with more than three to seven years experience in system development and programming or, have the equivalent background
- 2) have more than three years experience in programming in any one of programming languages: such as COBOL, FORTRAN, PL/I, etc.
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (SENIOR SYSTEM ANALYST/DESIGNER (B))

1. PURPOSE

This course is designed to train the personnel who are presently or will be system analysts and designers. Through the lectures, group exercises and observation tours, this course provides the knowledge and skills necessary for analyzing, designing, developing and evaluating an online database system, and way of project management.

2. DURATION

From November 4, 1993 to February 26, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, computer exercise, system development and workshops.

The main themes are:

- i) system analysis/design subjects
- ii) system estimation/evaluation subjects
- iii) project management subjects

5. QUALIFICATION OF APPLICANT

- 1) university graduate with more than three to seven years experience in system development and programming or, have the equivalent background
- 2) have more than three years experience in programming in any one of programming languages: such as COBOL, FORTRAN, PL/I, etc.
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

情報処理要員養成(オンラインデータベースシステム設計者(A))

INFORMATION PROCESSING PERSONNEL (ONLINE DATABASE SYSTEM DESIGNER (MAINFRAME BASED (A))

1. PURPOSE

This course is designed to train the personnel who will be in charge of online database system development under mainframe computer environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for designing and development of online database system applying relational type database.

2. DURATION

From May 6, 1993 to October 16, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are;

- 1) module design
- 2) programme structure design
- 3) online database system introduction
- 4) database programming
- 5) TSS (time sharing system) usage
- 6) JCL (job control language) usage
- 7) database design
- 8) online programming
- 9) test planning
- 10) online application system design
- 11) online system definition
- 12) database creation
- 13) file system design

- 14) system estimation/evaluation
- 15) reliable system design
- 16) data communication network design
- 17) system configuration design workshop
- 18) project management
- 19) database recovery design
- 20) system development workshop
- 21) introduction to personal computer
- 22) case study
- 23) CASE (computer aided software engineering) introduction
- 24) advanced computer technology

5. QUALIFICATION OF APPLICANT

- (i) personnel who have one to three years' experience in system development and maintenance, and have more than three years' programming experience in at least one of the programming languages such as COBOL, FORTRAN AND PL/I
 - (ii) able to make a programme in COBOL
 - (iii) experienced in system design in batch processing system
- 2) university graduate or equivalent
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (ONLINE DATABASE SYSTEM DESIGNER (MAINFRAME BASED (B))

1. PURPOSE

This course is designed to train the personnel who will be in charge of online database system development under mainframe computer environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for designing and development of online database system applying relational type database.

2. DURATION

From October 7, 1993 to March 28, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are:

- 1) module design
- 2) programme structure design
- 3) online database system introduction
- 4) database programming
- 5) TSS (time sharing system) usage
- 6) JCL (job control language) usage
- 7) database design
- 8) online programming
- 9) test planning
- 10) online application system design
- 11) online system definition
- 12) database creation
- 13) file system design

- 14) system estimation/evaluation
- 15) reliable system design
- 16) data communication network design
- 17) system configuration design workshop
- 18) project management
- 19) database recovery design
- 20) system development workshop
- 21) introduction to personal computer
- 22) case study
- 23) CASE (computer aided software engineering) introduction
- 24) advanced computer technology

5. QUALIFICATION OF APPLICANT

- (i) personnel who have one to three years' experience in system development and maintenance, and have more than three years' programming experience in at least one of the programming languages such as COBOL, FORTRAN and PL/I
 - (ii) able to make a programme in COBOL
 - (iii) experienced in system design in batch processing system
- 2) university graduate or equivalent
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

16) system development workshop

INFORMATION PROCESSING PERSONNEL (UNIX DATABASE SYSTEM DESIGNER)

1. PURPOSE

This course is designed to train the personnel who are presently or will be in charge of system development using database system under the UNIX environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for design and development of online database system under the UNIX environment.

2. DURATION

From November 4, 1993 to March 26, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands on exercise, workshops and observation tours.

The main themes are:

1)	programme structure design	9) UNIX database system usage
2)	module design	10) UNIX database programming
3)	test planning	11) UNIX database design
4)	UNIX fundamentals	12) UNIX database definition
5)	UNIX programming utilities	13) network design outline
6)	C programming	14) UNIX networking usage
7)	UNIX system administration	15) system development outline

5. QUALIFICATION OF APPLICANT

1) university graduate or equivalent

C language advanced programming

- 2) have one to three years' experience in system development and maintenance, and have more than three year's programming experience in at least one of programming languages such as BASIC
- 2)' having a plan to be a personnel who will develop a system under UNIX environment
- 3) under 36 years of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

INFORMATION PROCESSING PERSONNEL (DP DIVISION MANAGER)

1. PURPOSE

This course is designed to train personnel who are presently the managers under one year experience in the information processing division or who are appointed to the manager of the information processing division. Through lectures, group exercises and observation tours, this course provides the skills necessary for information processing system planning and its operation, and management of information processing division.

2. DURATION

From August 26, 1993 to October 25, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours.

The main themes are;

- 1) DP system planning
- 2) case study
- 3) project management simulation
- 4) DP division management
- 5) system audit
- 6) DSS (decision support system)
- 7) word processing

5. QUALIFICATION OF APPLICANT

- person with over three years experience in information processing system development and/or maintenance
- presently the manager and have less than one year experience of data processing division management
- 2)' personnel who are appointed to the manager of information processing division
- 3) university graduate or equivalent
- 4) under 46 year of age

6. TRAINING INSTITUTIONS

Okinawa International Centre (OIC), JICA

MICROELECTRONICS ENGINEERING (MICROCOMPUTER)

1. PURPOSE

This course is designed to provide technical knowledge and practical experience in digital logic, microcomputer hardware and software design.

2. DURATION

From November 18, 1993 to February 26, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on practical experience by participants.

It mainly covers:

- 1) Z80 assembly languages
- 2) digital logic
- 3) microcomputer
- 4) PLD design
- 5) C language
- 6) LAN design

5. QUALIFICATION OF APPLICANT

- 1) able to operate DOS (Disc Operating System) and Text Editor of personal computers
- 2) design or development engineer who have experienced more than three years of developing and designing software or hardware for personal computer or microprocessor
- 3) have experience in developing programs by C-language or assembly language
- 4) have experience in designing and developing digital circuits or print circuited board
- 5) over 25 and under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Hokkaido Branch Office, JICA
- 2) Sapporo Electronics Center

OFFICE AUTOMATION TECHNOLOGY

1. PURPOSE

Even though it may be desirable to automate office work through the use of computers and other equipment, a computer system alone will not provide excellent results if the present methods of conducting business transactions are not change.

That is why this course seeks to deepen an understanding of new office work systems by re-evaluating present systems and planning methods before proceeding to the use of computers and automation. At the same time, the course will be interwoven with lectures, practice, and field trips dealing with the new way of thinking about and advancing with the use of computers in office automation. This course will produce the capable with leadership qualities who will be able to reform and promote operations in their own countries.

2. DURATION

From August 5, 1993 to October 31, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on report presentation and discussions by participants, and introduction of Japanese experience and basic theories of Office Automation.

The main themes are;

- actual situation of computer usage in Japanese government
- 2) how to advance record management
- 3) how to advance business system design
- 4) how to advance system planning
- 5) how to advance on-line system design
- 6) design and actual situation of data base systems
- 7) office LAN (office communication)
- 8) how to advance project management
- 9) end user computing
- 10) system inspection and security
- 11) case studies (company visits)
- panel discussion (human resource development in promotion of office automation)

5. QUALIFICATION OF APPLICANT

- 1) have university diploma or equivalent
- governmental administrator who have more than five years experiences in the work of information oriented systems as end user
- administrator who shall be planning improves ways of undertaking office work, and planning the development of new structures through the effective use of present-day office automation and information systems. (or the applicant must be a project leader in the promotion of office automation)
 Exceptions:
 - 1. Administrators in computer (information system) departments, specializing in operations associated with computers, SE's (system engineers), or programmers
 - 2. Not necessary to be administrators with deep technical knowledge but advisable to possess at least basic knowledge of personal computers know-how to operate "d BASE III" and "Lotus 1-2-3"
- 4) about 35-45 years of age

6. TRAINING INSTITUTIONS

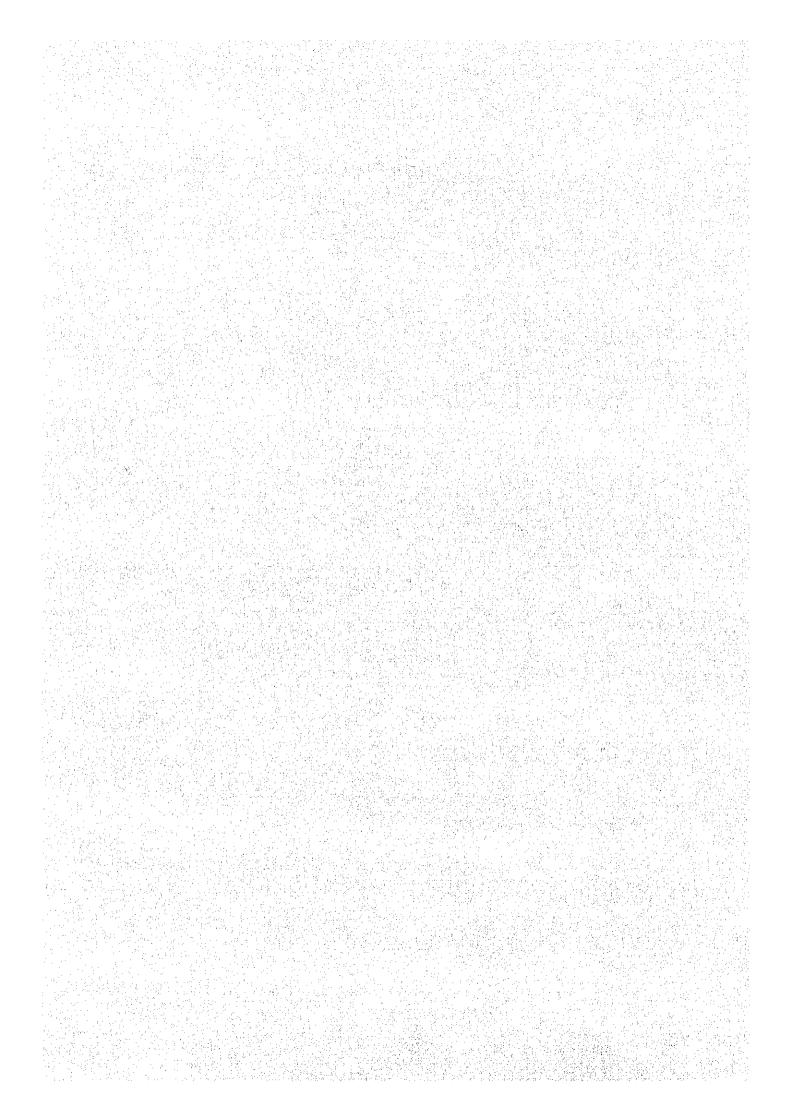
- 1) Osaka International Training Centre (OITC), JICA
- 2) Kansai Institute of Information Systems

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

PUBLIC UTILITY WORKS

公 益 事 業



WATER SUPPLY ENGINEERING II

1. PURPOSE

The purpose of this course is to provide the participants with an opportunity to broaden theoretical and practical knowledge of water supply systems with surface water resource and sanitary engineering systems including its planning, designing, operation and maintenance through lectures, laboratory practice and observations.

2. DURATION

From May 11, 1993 to July 30, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course is designed to cover the following themes.

- 1) water supply planning
- 2) waterworks management
- 3) water purification system and water quality
- 4) pipeline design and its maintenance

5. QUALIFICATION OF APPLICANT

- presently engaged in the field of water supply with surface water resource in the relevant authority and have more than three years of occupational experience in the field
- 2) university graduate or equivalent
- 3) not less than 26 and not more than forty-five (45) years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- 2) Japan Water Works Association (JWWA)

SEWAGE WORKS ENGINEERING II

1. PURPOSE

The purpose of the course is to provide participants with a basic knowledge of sewage collection, urban drainage systems, sewage treatment and disposal, and sludge handling, as well as to furnish them so that the participants would be able to play their greater role for further progress and advancement of sewage works in their respective countries.

2. DURATION

From August 17, 1993 to November 17, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course covers the following themes:

- 1) basic theory of sewerage and sewage purification
- 2) process and methods for planning and designing sewers, pumping stations, and sewage and sludge treatment facilities
- 3) rough master plan for a sewage systems
- 4) pretreatment of industrial wastewater
- 5) significance and methods of water quality analysis
- 6) advanced sewage and sludge treatment technology

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent and has more than three years of practical experience
- senior technical officer in charge of sewage works in central or provincial government, or in local bodies
- 3) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- 2) Sewerage Planning Division, Sewerage and Sewage Purification Department, City Bureau, Ministry of Construction
- 3) Japan Sewage Works Agency

7. REMARKS

Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

SOLID WASTE MANAGEMENT AND NIGHT SOIL TREATMENT II

1. PURPOSE

The main purpose of the course is to provide university graduates or their equivalent with knowledge and techniques required for solid waste management and night soil treatment (excluding sewerage system), particularly those for domestic and industrial solid waste management, through lectures, discussions, laboratory practice and field studies. The lectures are intended to provide the participants not only with knowledge and techniques but also principles and approaches to the problem solution.

The course is also intended to introduce recent aspects of solid waste management in Japan and its international technical cooperation activities in this field.

2. DURATION

From May 20, 1993 to July 24, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The following major subjects will be covered in this course, mainly by means of lectures.

- 1) problem identification and national/master plan elaboration
- 2) solid waste management
 - collection and transportation
 - treatment and disposal (incineration, sanitary landfills)
- 3) industrial waste management (especially hazardous waste)
- 4) night soil treatment
- 5) institutional development for solid waste management service
- 6) solid waste management/night soil treatment in developing countries

5. QUALIFICATION OF APPLICANT

- technical official presently in charge of solid waste management (domestic and industrial solid waste management and night soil treatment excluding sewerage system) in central or provincial governments or in local bodies, with three or more years of experience in this field
- 2) under 50 years of age
- 3) university graduate or equivalent

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Environmental Health Bureau, Ministry of Health and Welfare
- 3) Japan Environmental Sanitation Centre

WASTE MANAGEMENT PRACTICE

1. PURPOSE

The purpose of this course is to upgrade the administrative and managerial skills of personnel who are currently engaged in solid waste management, for the purpose of dealing with environmental problems due to the rapid progress of urbanization and industrialization in developing countries.

2. DURATION

From January 10, 1994 to April 27, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The training programme which is rather comprehensive consists of lectures, exercise and study tours. However, the emphasis is put on making action plan in each participant country and introduction of Japanese experiences.

The subjects covered in the course are:

- 1) basic theory on local administration
- 2) household refuse treatment
- 3) strategies for public awareness building on solid waste management
- 4) night soil treatment
- 5) administrative framework of industrial solid waste management
- 6) industrial waste processing
- 7) solid waste management produced in local government enterprise
- 8) hazardous wastes management
- 9) landfilling of solid wastes
- 10) ocean dumping of wastes
- 11) study tours

5. QUALIFICATION OF APPLICANT

- 1) technical administrator who have three years or more of experience in solid waste management and/or equivalent technical knowledge
- 2) university graduate or equivalent
- 3) not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Kyushu International Centre (KIC), JICA
- 2) Kitakyushu International Training Association

7. REMARKS

 A compulsory intensive Japanese language course will be conducted prior to the technical training for 25 hours.

TRANSPORTATION AND TRAFFIC

運輸交通

ADMINISTRATION SYSTEM FOR MOTOR VEHICLES

1. PURPOSE

The purpose of the course is to provide participants with both basic and practical knowledge of administrative systems for motor vehicle engineering, and thus to contribute to creating the most suitable system for motor vehicle engineering in their respective countries.

2. DURATION

From January 20, 1994 to March 2, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course mainly consists of lectures and field visits.

The following are the major subjects to be covered in the course.

- 1) administrative systems and related laws and regulations in Japan
 - safety and pollution control regulations
 - maintenance, repair and inspection systems
 - registration system
 - road transport business regulations
 - insurance system
 - driver's licence system, etc.
- 2) motor vehicle safety and pollution control engineering
- 3) motor vehicle standards and production activities
- 4) business and services for traffic safety

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) have been engaged in the field or motor vehicles administration for safety and pollution control of vehicle construction, (for example, periodical inspection and rule making)
- 3) occupy a responsible position at present in governmental or public organization
- 4) under 50 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Road Transport Bureau, Ministry of Transport
- 3) Automobile Inspection & Registration Association (AIRA)

MODERNIZATION OF PHYSICAL DISTRIBUTION (CARGO TRANSPORTATION)

1. PURPOSE

This course aims at providing officials who are currently engaged in the field of physical distribution (cargo transport) at governmental or public organizations with opportunities to study plans, techniques, and information about modernization of physical distribution. The course shall be focusing on land transport, especially on truck transport. The curriculum comprehends packaging, storing, handling, transport and information management.

2. DURATION

From April 19, 1993 to June 24, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on lectures and observation tours.

The main themes are:

- 1) administration of physical distribution
- 2) planning and coordination for physical distribution
- 3) modernization for physical distribution
- 4) strategy for physical distribution

5. QUALIFICATION OF APPLICANT

- 1) currently engaged in the field of physical distribution (cargo transport, especially land transport) at governmental or public organizations, with three years or more of experience in this field
- 2) university graduate or equivalent
- 3) not engaged in the field of road construction and management, traffic survey and control and passenger transport

6. TRAINING INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Transport Policy Bureau, Ministry of Transport
- 3) Chubu District Transport Bureau, Ministry of Transport
- 4) Industrial Research Institute, Aichi Prefectural Government
- 5) private enterprises

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

SEMINAR ON HIGHWAY CONSTRUCTION II

1. PURPOSE

The course is designed to improve the knowledge of personnel who are currently engaged in highway construction and maintenance through the introduction of road construction technology developed in Japan.

2. DURATION

From September 16, 1993 to November 7, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

The most important part of this seminar is Country Report presentation and discussion for comparative study.

Another major part is introduction of Japanese systems, situations and cases as follows.

- 1) present situation of roads and road transportation, which includes traffic safety, disaster prevention, new transportation systems, etc.
- outline of special large-scale projects in which the most advanced techniques in this field are concentrated
- 3) road environmental problems and measures for protecting the living environment along the highways
- 4) technical standards for designs of highways, bridges, and pavements

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- engineer with more than two years of experience in the field of highway construction and maintenance
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Road Bureau, Ministry of Construction

TERMINAL FACILITY PLANNING AND URBAN DESIGN

1. PURPOSE

The purpose of this course is to provide participants with a knowledge of the principles and methods of transport terminal planning, urban design, and transport information systems in general through lectures, discussions and field studies covering planning of urban facilities, urban management systems, transportation facilities and systems of urban transport.

2. DURATION

From September 30, 1993 to November 27, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the following major subjects will be covered through lectures, discussions, practices and observation trips.

- 1) system and history of urban transportation in Japan
- 2) planning, project and management of terminals
- 3) comprehensive management of terminals
- 4) street design

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent with occupational experience of more than three years
- 2) under 40 years of age
- 3) presently engaged in urban planning and urban management

6. TRAINING INSTITUTIONS

- 1) Tokyo International Center (TIC), JICA
- 2) Street Division, Ministry of Construction

7. REMARKS

Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

RAILWAY MANAGEMENT AND PLANNING

1. PURPOSE

The purpose of this course is to introduce Japanese railway management to the participants so as to contribute to railway management in developing countries by establishing sound methods of railway operations and railway project management.

2. DURATION

From February 1, 1994 to March 6, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course consists of observation of various types of railway companies in Japan and lectures on the following topics.

- 1) present situation of railway enterprises in Japan
- 2) restructuring of the former Japanese National Railway
- 3) different operation forms (private, public and joint-ventures between private and public sectors)
- 4) different types of railway transportation (monorail, new transit system, etc.)
- 5) methods of multiple management
- 6) systematic and efficient management (maintenance program, financial management, personnel management, etc.)

5. QUALIFICATION OF APPLICANT

- 1) at the chief or director level, engaged in a planning or administrative division in the field of railway management
- 2) have more than five years of practical experience after graduation from university
- 3) university graduate or equivalent
- 4) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Railway Bureau, Ministry of Transport
- 3) Japan Railway (JR) Group

SEAFARER'S MANAGEMENT SYSTEM

1. PURPOSE

The purpose of this course is to provide knowledge and techniques concerned with seafarer training and labour control systems based on seafarer administration, using the seafarer management system in Japan as an example, and to contribute to creating suitable seafarer management systems for participating countries.

2. DURATION

From August 5, 1993 to November 17, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course is designed so as to let participants be versed in the following subjects;

- 1) labor management of seafarers
 - (a) standards of labor management
 - (b) actual labor control in oceangoing vessels
 - (c) seafarer salaries and unions
- 2) administration of and certification system for seafarers
 - (a) administration system
 - (b) certification system
 - (c) national examination system for ship's officers
- 3) education system for seafarers
- 4) circumstances of Japanese shipping
 - (a) standards of labor management
 - (b) mixed-manning system

5. QUALIFICATION OF APPLICANT

- person with occupational experience of more than three year either as a) human development manager or personnel in charge of organizing training curriculum for seafarers in shipping corporations or training institutions for seafarers, or b) governmental or other public official in managerial or leading position in administrative organizations for shipping corporation or training institutions for seafarers
- 2) university graduate or equivalent
- 3) between 25 and 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Seafarers Dept., Maritime Technology and Safety Bureau, Ministry of Transport
- 3) Maritime International Cooperation Center of Japan (MICC)

MARINE TECHNIQUE (NAVIGATOR)

PURPOSE 1.

The aim of the course is to hand over to the participants the marine technique and experience which Japan has long accumulated, and by so doing to make them conscious of the status quo of a higher marine technology and management.

Furthermore, the participants, through their own training, are to acquire the knowledge and technique concerning the seamen's training methods, and after they return to their respective countries, they are expected to spread their fruits so gained among their successors.

DURATION 2.

From June 24, 1993 to December 10, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5) (One participant from one country in principle)

MAIN FEATURES OF CURRICULUM 4.

This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on board practice and observation tours.

Common Subjects (10 weeks)

1) terrestrial and celestial navigation

2) nautical instruments

ship maintenance

4) ship maneuvering and marine accident

5) ship cargo handling

safety management 7) watch keeping

8) naval architecture 9) marine meteorology

10) navigational regulations

11) maritime law

Seminar at laboratory (optional subjects) (4 weeks)

- 1) simulator training
- nautical instruments
- weather and radar navigation

- 12) ship engineering
- 13) computer mathematics
- 14) computer and information science
- 15) computer practice
- 16) fundamentals of physical Science
- fundamentals of chemical science
- 18) fundamentals of maritime management
- 19) bridge simulator training
- 20) radar simulator training
- 21) practice on board
- 4) navigational regulations and maritime law
- 5) loading calculation

QUALIFICATION OF APPLICANT 5.

- in possession of the certificate of Third of higher Grade Maritime Officer (Officer) with more than one year of seatime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year
- 2) male, between 25 and 35 years of age
- presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field 3) in their respective countries

TRAINING INSTITUTIONS 6.

- 1) Hyogo International Center (HIC), JICA
- 2) Marine Technical College

7.

A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

MARINE TECHNIQUE (ENGINEER)

PURPOSE

The aim of the course is to hand over to the participants the marine technique and experience which Japan has long accumulated, and by so doing to make them conscious of the status quo of a higher marine technology and

Furthermore, the participants, through their own training, are to acquire the knowledge and technique concerning the seamen's training methods, and after they return to their respective countries, they are expected to spread their fruits so gained among their successors.

2. DURATION

From June 24, 1993 to December 10, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5) (One participant from one country in principle)

MAIN FEATURES OF CURRICULUM

This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on board practice and observation tours.

Common Subjects (12 weeks)

- 1) boiler
- steam turbine engine
- diesel engine and gas turbine
- propeller and shafting
- auxiliary machinery
- electrical engineering 6)
- 7) automatic control
- 8) instrumentation
- 9) fuel oil and lubricant
 - Seminar at laboratory (optional subjects) (2 weeks)
- 1) steam plant
- internal combustion engine 21
- 3) electrical engineering and electronics
- 4) auxiliary machineries
- 5) automatic control

- 10) thermodynamics, hydrodynamics, mechanics and materials
- 11) computer
- 12) marine propulsion system based on energy flow
- 13) engine room simulator training
- 14) maritime laws and international conventions
- 15) ship's survey inspection
- 16) safety management
- 17) practice on board
- 6) instrumentation
- 7) information engineering
- 8) engine room simulator
- 9) propulsion

5. **QUALIFICATION OF APPLICANT**

- in possession of the certificate of Third of higher Grade Maritime Officer (Engineer) with more than one year of seatime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year
- 2) male, between 25 and 35 years of age
- presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field 3) in their respective countries

6. TRAINING INSTITUTIONS

- 1) Hyogo International Center (HIC), JICA
- Marine Technical College

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hors),

AIDS TO MARINE NAVIGATION II

1. PURPOSE

The purpose of the training course is to provide participants with the comprehensive and latest theory, knowledge and techniques of systems of aids to marine navigation in Japan, thus contributing to the improvement of the managerial and technological level of aids to navigation in each participating country, and to promote cooperative relations among the participating countries and Japan in carrying out their duties of providing aids to marine navigation.

2. DURATION

From August 19, 1993 to October 23, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of Japanese system and basic knowledge and techniques.

The following themes will be covered in the course.

- 1) administration of aids to marine navigation and related activities in Japan
- visual aids navigation system
 (planning, design, operation and maintenance)
- radio aids navigation system
 (planning, design, operation and maintenance)
- system engineering
 (power sources, floating aids, construction, microwave equipment, monitoring and control)

5. QUALIFICATION OF APPLICANT

- 1) high school graduate or equivalent with a sufficient knowledge of physics
- 2) middle-class officer engaged in administration and management of aids to navigation
- 3) under 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Aids to Navigation Department, Maritime Safety Agency
- 3) Japan Association for Aids to Navigation (JAAN)

MARINE DISASTER PREVENTION AND RESCUE OPERATION

1. PURPOSE

The purpose of this course is to provide the participants with an administrative concept and actual ways of managing maritime search and rescue and maritime disaster prevention through lectures, practices and observations. The training will contribute to further promotion of the friendship and cooperation between the participating countries and Japan.

2. DURATION

From September 2, 1993 to December 10, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip.

The main themes are:

1) Lectures

- organization and function of JMSA
- international maritime search and rescue activities under the International Convention on Maritime Search and Rescue, 1979
- maritime search and rescue systems in Japan
- maritime search and rescue operations
- case studies of maritime search and rescue operations
- method on rescue of capsized and grounded ships
- Global Maritime Distress and Safety System (GMDSS)
- information collection system of JMSA

- prevention of marine pollution system
- JMSA' activities on marine disaster prevention

2) Practice

- experimental sail on a JMSA's fire fighting vessel or craft
- work on marine disaster prevention
- experimental sail on a JMSA's patrol vessel
- experimental fly in a JMSA's aircraft (observation of Special Rescue Station)
- rescue training including special rescue

3) Observation and Study Tour

 training of Special Rescue Team and patrol vessels with improved rescue capability of JMSA

5. QUALIFICATION OF APPLICANT

- university graduate or equivalent with occupational experience of more than five years in the field of marine disaster prevention and, search and rescue operation
- 2) presently engaged in the above-mentioned field
- 3) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Hyogo International Center (HIC), JICA
- 2) Maritime Safety Agency
- 3) 5th Regional Maritime Headquarters
- 4) Maritime Safety Academy
- 5) Disaster Prevention Training Centre

7. REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for about 25 hours.

LINER SHIPPING BUSINESS

1. PURPOSE

The purpose of the course is to provide participants with an opportunity to acquire basic knowledge and up-to-date information on liner shipping operations in Japan as well as those in global situations.

For this purpose, the course provides lectures on shipping policy of Japan and liner shipping operation, centering on container operation. In addition, observation and study tours shall contribute to better understanding of lectures as a supplement guide.

2. DURATION

From May 11, 1993 to June 25, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on introduction of Japanese system and basic information. The following major subjects will be covered in the course.

- 1) government administration for shipping
 - (a) administration for international shipping of Japan
 - (b) present situation and future planning of container terminals in Japan
 - (c) administration for seafarers
- 2) maritime law
 - (a) ocean carrier's liability
 - (b) charter party and maritime arbitration
 - (c) cargo claim
- 3) liner shipping business
 - (a) liner shipping business and shipping conference

- (b) containerization in the shipping field
- (c) purchasing and leasing at container
- (d) management and operation at containers
- (e) container terminal operation
- (f) international combined transportation
- (g) activities of Japanese shipper's council
- 4) others around liner shipping business
 - (a) liner shipping service at the world
 - (b) profitability calculation in building new vessels
 - (c) technological innovation at vessels
 - (d) marine insurance

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) have practical experience of more than three years in shipping business, and be asked to acquire basic knowledge of the liner shipping business
- 3) presently engaged in shipping corporations
- 4) under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) International Shipping Division, Maritime Transport Bureau, Ministry of Transport.
- 3) Maritime International Cooperation Center of Japan (MICC)

SEMINAR ON PORT ADMINISTRATION AND MANAGEMENT

1. PURPOSE

The seminar is designed to contribute to cultivating the human resources development of port administrators and managers who are expected to play an important roe in port development in developing countries so as to improve port administration and management systems in developing countries.

2. DURATION

From September 28, 1993 to November 27, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Seventeen (17) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this course, the emphasis is put on case study at one of the six biggest ports in Japan, report presentation and discussion.

The main themes are;

- 1) present situation of ports and harbours in Japan
 - port development policy
 - system and organization of port administration and management
 - labour problems
- 2) techniques on port management and operation services
- 3) ports and harbours in participating countries

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) presently engaged in the port administrative works and/or management with more than three years of occupational experience in the field of ports and harbours
- 3) between 30 and 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Ports and Harbours Bureau, Ministry of Transport

PORT AND HARBOUR ENGINEERING II

1. PURPOSE

The course is designed to contribute to cultivating the human resources development of port engineers who are expected to play an important role in port development in developing countries so as to improve the technology in solving various technical problems in port development.

2. DURATION

From May 11, 1993 to September 19, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course consists of lectures, exercises, observations, intensive field study at the Port of Onahama and discussions.

It covers:

- 1) basic theories of port and harbour engineering
- 2) advanced technology for port development
- 3) port development in Japan

5. QUALIFICATION OF APPLICANT

- 1) university graduate or equivalent
- 2) presently engaged in civil engineering with more than three years of occupational experience
- 3) under 35 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Ports and Harbours Bureau, Ministry of Transport
- 3) Ports and Harbours Research Institute

DEVELOPMENT OF CONTAINER TERMINAL

1. PURPOSE

The purpose of this training course is to help participants understand the background to containerization and methods of planning, construction, maintenance and management of container terminals as well as the containerization policy currently applied in Japan, and thus to help each of the participants figure out the future prospects for containerization in their respective countries.

2. DURATION

From January 18, 1994 to March 13, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

This course mainly consists of lectures, intensive study at Kobe Port (one of the leading ports in Japan) and group work. Participants will be divided into several groups to study a subject which is chosen by them (such as engineering, computers, etc.) and to make presentations at the end of the course.

The following are the major subjects to be covered in the course.

- 1) containerization and development of container terminals
- 2) method of planning container terminals
- 3) management and maintenance of container terminals

5. QUALIFICATION OF APPLICANT

- presently engaged in or will be engaged in container terminal planning and/or container terminal management
- university graduate or equivalent with more than five years of occupational experience in the field of ports and harbours
- 3) not less than 30 and not more than 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Ports and Harbours Bureau, Ministry of Transport

SEMINAR ON AERODROME

1. PURPOSE

The seminar is designed to contribute to the levelling-up of technical knowledge and knowhow about airport civil engineering for engineers who mainly work in the areas of airport planning, airport construction, and maintenance and operation of airport facilities.

The participants will be given opportunities to take lectures, have discussions and conduct on-site observations. The participants will also study how to execute their own airport development plans through discussions on the country reports submitted by the participants.

2. DURATION

From August 24, 1993 to October 14, 1993

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this seminar, the emphasis is put on introduction of Japanese situation and systems and basic theories on airport planning and management.

The major subjects are;

- 1) civil aviation in general
- 2) operation of airports
- 3) planning of airports
- 4) design and construction of airports
- 4) maintenance of airports

5. QUALIFICATION OF APPLICANT

- 1) university graduate in civil engineering or architecture or equivalent
- currently employed by their government or by public authorities for civil aviation as airport engineer or be newly-appointed personnel who will manage airport civil engineering matters
- 3) have more than five years of occupational experience in the fields of airport civil engineering such as in airport planning, airport construction, or maintenance
- 4) under 40 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Civil Aviation Bureau, Ministry of Transport

SEMINAR ON AVIATION SECURITY

1. PURPOSE

The purpose of this seminar is to provide participants with the fundamental knowledge of aviation security practiced in Japan as a reference, including ICAO specifications, and with the opportunities to exchange views in the field of aviation security among participants and Japanese lecturers, this contributing to investigating the applicable improvements of aviation security in participating countries.

2. DURATION

From January 27, 1994 to March 2, 1994

3. TOTAL NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14) (One participant from one country in principle)

4. MAIN FEATURES OF CURRICULUM

In this seminar, the emphasis is put on introduction of Japanese systems as a reference.

The following major subjects will be covered in the seminar.

- 1) civil aviation
- 2) airport management and security guard
- 3) countermeasures against acts of unlawful interference
- 4) security control systems

(preventive measures by air carriers, manuals, training of security personnel, security equipment, etc.)

This seminar is designed so as to let participants

- (1) acquire the fundamental knowledge of international measures for aviation security.
- (2) acquire the fundamental knowledge of countermeasures for aviation security and of security control system practiced in Japan as a reference.
- (3) obtain the fundamental technical knowledge of security equipment, and
- (4) identify the problems of aviation security in each participating countries, and thus contributing to considering the improvement for the problems.

5. QUALIFICATION OF APPLICANT

- 1) university graduate in civil aviation or equivalent
- currently employed by their governments or other public authorities for civil aviation (It is desirable to be in the leading positions of administrative and/or policy-planning sections for aviation security.)
- 3) have not less than five years of occupational experience in the field of aviation security
- 4) under 45 years of age

6. TRAINING INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) Civil Aviation Bureau, Ministry of Transport
- 3) Airport Security Business Center (ASBC)