

**Outline of
The Group Training Course
in Japan**

1985 Japanese Fiscal Year (April, 1985 to March, 1986)

**Japan International Cooperation Agency (JICA)
Tokyo, Japan**

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Tokyo, Japan**

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INTRODUCTION

This brochure is prepared to introduce the summary of content of the working plans of group training courses for participants from developing countries, as part of Japan's technical cooperation programmes for the fiscal year of 1984

Copies of "INFORMATION" on the details of those group training courses are scheduled to be provided later, however, prior to the forwarding of copies of the said "INFORMATION", it is earnestly hoped that this brochure be useful for your understanding the outlines of those group training courses.

Director,
Training Affairs Department,
Japan International Cooperation Agency (JICA)

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DEVELOPMENT PLAN

No. 1

ECONOMIC DEVELOPMENT (SEMINAR) (経済開発セミナー)

1. PERIOD

September 5, 1985 to October 23, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) Government planners in economic development policy
- 2) Under 35 years of age
- 3) be those who have an academic background in economics or those having a proper experience and knowledge regarding economic policy and planning
- 4) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Factors of Japan's economic development
 - Japan's economic development and Economic policy
 - International cooperation for development
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Economic Planning Agency

6. REMARKS

No. 2

DEVELOPMENT ECONOMICS (GENERAL) (開発エコノミスト〔一般〕)

1. PERIOD

October 3, 1986 to March 28, 1986 (6-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) University graduates or equivalent in economics
- 2) Qualified in their respective fields
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Economic theory
 - Development economics
 - Introduction to formulation and evaluation of development projects
 - Macro development planning
 - Methods of project formulation and evaluation
 - Case studies in project formulation and evaluation
 - Economic development of Japan
 - Development strategy (approaches to international, regional development)
 - Seminar on development economics
 - Special lectures
- 2) Observation tours
- 3) Report writing

5. FACILITIES AND INSTITUTIONS

The International Development Centre of Japan (IDCJ)

6. REMARKS

No. 3

DEVELOPMENT ECONOMICS (INDUSTRIAL PROJECT) (開発エコノミスト〔工業〕)

1. PERIOD

May 23, 1985 to August 9, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates and academic background in economics, finance or engineering
- 2) Occupational experience of 3 to 4 years with a reasonable length of time in their present position
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Planning and analysis of industrial development project with special emphasis on agriculture-related industries
 - Japanese economic development - its relevance to contemporary problems of development
 - Field workshop and field study programme
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

ADMINISTRATION

No. 4

PREVENTION OF NARCOTIC OFFENCES (SEMINAR) (麻薬犯罪取締セミナー)

1. PERIOD

July 25, 1985 to August 24, 1985 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) Officers directly responsible for drug law enforcement
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Drug control in Japan
 - Identification of drugs
- 2) General discussions
 - Countermeasures to eradicate drug offences
 - International cooperation against drug crimes
- 3) Presentation of country report by participants
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

No. 5

**TREATMENT OF OFFENDERS: IMPROVEMENT OF CORRECTIONAL PROGRAMMES
FOR MORE EFFECTIVE REHABILITATION OF OFFENDERS (犯罪防止・矯正保護)**

1. PERIOD

April 11, 1985 to July 15, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Persons who hold relatively senior positions in a central bureau, department or field agency concerned with correctional treatment of offenders, and who have at least eight-year practical experience in their field or five-year practical experience plus a university degree or its equivalent
- 2) Have a sufficient command of spoken and written English
- 3) Under fifty (50) years of age
- 4) In good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- 1) Current Correctional system and general trends in population in corrections
- 2) *General management of institutions in terms of the implementation of the Rules*
- 3) *More effective correctional programmes for institutionalized offenders*
- 4) *Smooth transition from the institution to the community*
- 5) *More effective community-based programmes for released prisoners*
- 6) *Research on the effectiveness of treatment; methodologies and findings*
- 7) *The Standard Minimum Rules for the Treatment of Prisoners*

5. FACILITIES AND INSTITUTIONS

United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

6. REMARKS

No. 6

LOCAL GOVERNMENT (地方 行政)

1. PERIOD

April 11, 1985 to July 2, 1985 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Civil service personnel holding responsible managerial or supervisory positions in the local or the central government
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Local government system in Japan
 - Regional development
 - Outline of the government of Japan and its major policies
 - Local government system in the participating countries
 - Local public personnel system in the participating countries
 - Factors regarding regional development and their solutions
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Local Autonomy College, Ministry of Home Affairs

6. REMARKS

No. 7

NATIONAL GOVERNMENT ADMINISTRATION (国家行政)

1. PERIOD

September 5, 1985 to November 30, 1985 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years in public service or semi-government service in addition to more than 2 years' occupational experience in central or national civil service
- 4) Between 35 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Comparative study on the Central Government in the participating countries
 - Problems centering on modernization
 - Public administration and civil service
 - Principles, planning and techniques concerning public policies
 - Actual state of department administration and on-the-spot study through assignment to Ministry
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Public Administration, National Personnel Authority

6. REMARKS

TRAFFIC POLICE ADMINISTRATION (SEMINAR), (交通警察行政セミナー)

1. PERIOD

Not Conducted in 1985

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) A director or a chief police superintendent who supervises or is dealing with traffic police affairs in the central police organization
- 2) University graduates or equivalent
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Present situation of traffic police of Japan
 - Traffic safety countermeasures in Japan
 - Statistics and analyses of traffic accidents
 - Utilization of computers by the police
 - System of aid to victims of road traffic accidents and automobile insurance
 - Driver's license system
- 2) Observation tour and technical visits

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

Conducted Every Other Year

No. 8

CRIME PREVENTION AND TREATMENT OF OFFENDERS (SENIOR SEMINAR)

(犯罪防止 (上級))

1. PERIOD

January 30, 1986 to March 17, 1986 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) Senior police officers, public prosecutors, judges, prison officers and other high officials at policy making level, preferably those whose duties are closely related to the prevention and control of social and economic offenses
- 2) Have a sufficient command of spoken and written English
- 3) Under 55 years of age and likely to continue to work in this field for a minimum of 2 years

4. DESCRIPTION OF TRAINING

- 1) Individual presentations
 - Forms and dimensions of social and economic offenses
 - Measures for preventing and controlling social and economic offenses
- 2) Seminar discussions

5. FACILITIES AND INSTITUTIONS

United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

6. REMARKS

No. 9

CRIMINAL JUSTICE ADMINISTRATION (犯罪防止・刑事司法)

1. PERIOD

September 5, 1985 to December 9, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Persons who hold relatively senior positions in the police, public prosecutors offices, the judiciary, correctional services, probation offices and other sectors closely related to juvenile justice administration, and who have at least eight-year practical experience in their field or five-year practical experience plus a university degree or its equivalent
- 2) Have a sufficient command of spoken and written English
- 3) Under fifty (50) years of age

4. DESCRIPTION OF TRAINING

- 1) Comparative study on the main theme
 - Comparative study of the existing juvenile justice systems and their administration
 - Looking into the recent trends in and causes of juvenile delinquency
 - Examination into effective and practical preventive measures for juvenile delinquency
 - Searching for a better system and administration of juvenile justice
- 2) Group workshops on special topics to be selected by participants

5. FACILITIES AND INSTITUTIONS

United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

6. REMARKS

No. 10

FIRE SERVICE ADMINISTRATION (消防行政)

1. PERIOD

May 23, 1985 to August 6, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Bachelors in law, politics or administration
- 2) Under 40 years
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Fire service administration, organization and fire personnel
 - Fire prevention
 - Defense system and activity
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Fire Defense College and Fire Defense Laboratory
- 2) Tokyo Fire Department
- 3) Fire Defense Agency, Ministry of Home Affairs

6. REMARKS

No. 11

CRIMINAL INVESTIGATION (SEMINAR) (国際捜査セミナー)

1. PERIOD

June 2, 1985 to June 28, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior police officers who are in charge of investigations of ordinary law crime and who belong to the central police organization
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Organization and operation of criminal police
 - Techniques of criminal investigation and identification
 - Observation of criminal police facilities and equipment
- 2) Observation tours
 - Study trip to Kansai District (West part of Japan)

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

No. 12

GOVERNMENT AUDITING (AUDIT OF PUBLIC WORKS (SEMINAR))

(政府会計検査セミナー)

1. PERIOD

June 27, 1985 to August 1, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Officials of the Supreme Audit Institution of each country
- 2) Those who possess good knowledge of public works
- 3) Head of audit team responsible for public works auditing with more than ten years of working experience or those who have similar experience
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Lectures and Discussions

(1) Basic Information (10 days)

- a. Accounting and Financial System in Japan
- b. Profile of the Board of Audit of Japan
- c. Introduction to Public Works
- d. Accounting and Internal Control for Public Works
- e. Audit of Public Works
- f. Recruitment and Training of Staff
- g. Relationship between Audit Office and Audited Agencies

(2) Case Studies (1 week)

- a. Presentation by the Participants on Their Current Method of Public Works Auditing
- b. Presentation of Examples of Audit Findings by the Board of Audit of Japan
- c. Discussion and Presentation in a Workshop Style

2) Field Trip (1 week)

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Center, JICA
- 2) Board of Audit

6. REMARKS

No. 13

TAXATION (SENIOR TAX PROGRAMME) (SEMINAR) (上級租税セミナー)

1. PERIOD

September 30, 1985 to October 19, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently engaged in tax planning or administration
- 2) Ranked senior class officials
- 3) Sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
- Introduction of Japanese tax system and tax administration
- 2) Discussions
- Comparative study on tax system and administration through presentation of country reports and round-table discussions
- 3) Field trips to tax offices and various industry plants

5. FACILITIES AND INSTITUTIONS

National Tax Administration,

6. REMARKS

No. 14

CUSTOMS TECHNIQUE (税関行政)

1. PERIOD

September 5, 1985 to November 3, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Discussions
 - Organizations and functions of customs administration in Japan
 - Customs and tariff policy
 - Export and import clearance
 - Customs valuation
 - Other related lectures
 - Comparative study on related items
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Customs and Tariff Bureau, Ministry of Finance
- 2) Tokyo, Yokohama, Kobe, Osaka and Nagoya Custom House

6. REMARKS

No. 15

TAXATION (GENERAL TAX PROGRAMME) (SEMINAR) (一般租税セミナー)

1. PERIOD

August 29, 1985 to December 13, 1985 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty-five (25)

3. QUALIFICATIONS

- 1) University graduates
- 2) Presently engaged in tax administration or planning and have excellent performance record
- 3) Occupational experience of more than 5 years
- 4) Under 35 years of age in principle
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Country Report
- 2) Lectures and Discussions
 - Tax policy analysis
 - Tax administration
 - Special lectures on tax related matters
- 3) Theses and Round Table Discussions
- 4) Field Trips

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 16

LOAN PROCEDURES (SEMINAR) (借款手続セミナー)

1. PERIOD

October 17, 1985 to November 10, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Senior officers in charge of matters directly relative to OECF loans
- 2) University graduates or equivalent
- 3) Good working knowledge of English
- 4) Preferably under 45 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - OECF's role in Japan's Economic Cooperation
 - OECF's activities
 - Loan Procedures
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

The Overseas Economic Cooperation Fund

6. REMARKS

No. 17

ENVIRONMENTAL ADMINISTRATION (環境行政)

1. PERIOD

January 16, 1986 to March 9, 1986 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Senior technical or administrative officials for environmental administration, and in a position to participate in planning and deciding environmental policy in either central or local, in governmental organizations
- 2) Be preferably between thirty five (35) and forty-five (45) years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Environmental issues in Japan
 - Historical background of Japan's environmental administration
 - Japanese policy for preservation of the environment
 - Environmental impact assessment in regional development plans
 - Pollution control measures taken by the private industry
 - Government organization for protection of the environment
 - Legislation for pollution control
 - Formulation of pollution control programmes
 - Environmental enforcement and quality standards
 - Surveillance and monitoring system
 - Research activities, in the field of environmental science and technology
 - Relief measures for the victims of pollution
 - Conservation of natural environment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

International Affairs Division, Environment Agency

6. REMARKS

No. 18

ENVIRONMENTAL ENGINEERING (WATER POLLUTION CONTROL)

(環境技術・水質保全)

1. PERIOD

September 12, 1985 to November 2, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Junior technical officials
- 2) University graduates or equivalent
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Water contamination and Ecosystems
 - Waste water treatment
 - Assessment and forecast of water quality
 - Water quality monitoring and observation
 - Analysis of water quality
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

International Affairs Division, Environmental Agency

6. REMARKS

No. 19

MARINE PROTECTION (海洋保全)

1. PERIOD

September 5, 1985 to November 8, 1985

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) University graduates or equivalent, or have the occupational experience of more than five (5) years in the field of marine pollution prevention,
- 2) Presently engaged in the above-mentioned field,
- 3) Under forty (40) years of age,
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Organization and service of Maritime Safety Agency
- 2) Search and rescue operation and marine disaster prevention
- 3) Measures for oil clean-up
- 4) Laws relating to the Prevention of Marine Pollution and Maritime Disaster, etc.
- 5) Situation of marine pollution and preventive measures at sea around Japan
- 6) Control system of marine pollution and its operation
- 7) Investigation of violation of the laws
- 8) Measures for research on drifting, drifting ashore of oil balls and cause of their forming
- 9) Measures for research on distinction between oil balls and drifting, drifting ashore of oil
- 10) Measurement of oil content
- 11) Inspection of research on distinction of oil balls
- 12) Inspection of research on distinction of drifting, drifting ashore of oil
- 13) Training cruise 1 and 2
- 14) Training flight
- 15) Drills of spilled oil control

5. FACILITIES AND INSTITUTIONS

- 1) Maritime Safety Agency
- 2) The 11th Regional Maritime Safety Headquarters

6. REMARKS

No. 20

GENERAL STATISTICS (一般統計)

1. PERIOD

September 19, 1985 to March 28, 1986 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty (30)

3. QUALIFICATIONS

- 1) University graduates specialized in statistics, economics or sociology or those who have the equivalent knowledge and experience
- 2) Those who have a sufficient knowledge of basic mathematics
- 3) Between 25 and 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Statistical methods
 - Sampling methods
 - Statistical operations, Computing
 - National accounting statistics
 - Demographic and social statistics
 - Economic statistics
 - Food and agricultural statistics
- 2) Observation of field operations of statistical surveys

5. FACILITIES AND INSTITUTIONS

- 1) Statistical Institute for Asia and the Pacific
- 2) Management and Coordination Agency

6. REMARKS

No. 21

AUTOMATIC DATA PROCESSING (ADP) (ADP [自動データ処理])

1. PERIOD

September 19, 1985 to December 25, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or have the equivalent knowledge and experience
- 2) Upper and middle level statisticians of statistical offices whose present or intended work includes responsibility for statistical censuses, surveys or other statistical activities
- 3) Over 25 but under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Systems analysis and equipment selection
- 2) Electronic data processing and PL/I programming language
- 3) Large-file statistical data processing
- 4) Computer methods in statistical analysis
- 5) Statistical operations
- 6) Computer laboratory

5. FACILITIES AND INSTITUTIONS

- 1) Statistical Institute for Asia and the Pacific
- 2) Management and Coordination Agency

6. REMARKS

No. 22

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(SENIOR PROGRAMMER (A)) (シニア・プログラマー(A))

1. PERIOD

June 13, 1985 to October 4, 1985 (4-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates with more than a year's experience in programming or be persons with more than three (3) years' experience in programming
- 2) Having experience in programming with COBOL, FORTRAN, PL/I or assembly languages
- 3) Under thirty-five (35) years of age

4. DESCRIPTION OF TRAINING

- | | |
|---|--|
| 1) System development outline | 13) Operating system introduction |
| 2) Hardware introduction | 14) Personal computer exercise |
| 3) Data communication system introduction | 15) Exercise on TSS usage |
| 4) Advanced computer technologies | 16) Exercise on OS usage |
| 5) COBOL | 17) Exercise on COBOL programming |
| 6) On-line database system introduction | 18) Exercise on database programming |
| 7) Database programming | 19) Exercise on data communication programming |
| 8) Data communication programming | 20) System development workshop (including presentation) |
| 9) FORTRAN or PL/I | 21) Exercise on FORTRAN or PL/I |
| 10) Program design methodology | 22) Observation tour |
| 11) TSS (Time Sharing System) usage | |
| 12) OS (Operating System) usage | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 23

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(SENIOR PROGRAMMER (B)) (シニア・プログラマー(13))

1. PERIOD

November 21, 1985 to March 27, 1986 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates with more than a year's experience in programming or be persons with more than three (3) years' experience in programming
- 2) Having experience in programming with COBOL, FORTRAN, PL/I or assembly languages
- 3) Under thirty-five (35) years of age

4. DESCRIPTION OF TRAINING

- | | |
|---|--|
| 1) System development outline | 13) Operating system introduction |
| 2) Hardware introduction | 14) Personal computer exercise |
| 3) Data communication system introduction | 15) Exercise on TSS usage |
| 4) Advanced computer technologies | 16) Exercise on OS usage |
| 5) COBOL | 17) Exercise on COBOL programming |
| 6) On-line database system introduction | 18) Exercise on database programming |
| 7) Database programming | 19) Exercise on data communication programming |
| 8) Data communication programming | 20) System development workshop (including presentation) |
| 9) FORTRAN or PL/I | 21) Exercise on FORTRAN or PL/I |
| 10) Program design methodology | 22) Observation tour |
| 11) TSS (Time Sharing System) usage | |
| 12) OS (Operating System) usage | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 24

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(INSTRUCTOR) (インストラクター)

1. PERIOD

July 18, 1985 to December 16, 1985 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seventeen (17)

3. QUALIFICATIONS

- 1) University graduates with more than a year's experience in programming or be persons with more than three (3) years' experience in programming
- 2) Having experience in programming with COBOL, FORTRAN, PL/I or assembly languages
- 3) Under thirty-five (35) years of age

4. DESCRIPTION OF TRAINING

- | | |
|---|--|
| 1) System development outline | 16) Exercise on TSS usage |
| 2) Hardware introduction | 17) Exercise on OS usage |
| 3) Data communication system introduction | 18) Exercise on COBOL programming |
| 4) Advanced computer technologies | 19) Exercise on database programming |
| 5) COBOL | 20) Exercise on data communication programming |
| 6) On-line database system introduction | 21) Exercise on database design |
| 7) Database programming | 22) System operation |
| 8) Data communication programming | 23) System development workshop (including presentation) |
| 9) FORTRAN | 24) Exercise on FORTRAN |
| 10) PL/I | 25) Exercise on PL/I |
| 11) Program design methodology | 26) Observation tour |
| 12) TSS (Time Sharing System) usage | |
| 13) OS (Operating System) usage | |
| 14) Operating system introduction | |
| 15) Personal computer exercise | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 25

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(MANAGEMENT) (マネージメント)

1. PERIOD

October 31, 1985 to December 6, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seventeen (17)

3. QUALIFICATIONS

- 1) Persons with more than a year's experience as a DP manager
- 2) Under forty-five (45) years of age

4. DESCRIPTION OF TRAINING

- 1) Hardware introduction
- 2) Software introduction
- 3) System development outline
- 4) Advanced computer technologies
- 5) DP system planning
- 6) DP department management
- 7) Case study
- 8) Exercise on system development
- 9) Observation tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 26

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(PERSONAL COMPUTER (A)) (パーソナル・コンピューター(A))

1. PERIOD

July 4, 1985 to September 8, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

Under thirty-five (35) years of age

4. DESCRIPTION OF TRAINING

- 1) Personal computer introduction
- 2) Introduction to BASIC
- 3) Advanced BASIC
- 4) Business management tools
- 5) Database introduction
- 6) Database workshop
- 7) Basic system design
- 8) Workshop on system design
- 9) Observation tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 27

INFORMATION PROCESSING PERSONNEL (情報処理要員養成)
(PERSONAL COMPUTER (B)) (パーソナル・コンピューター(B))

1. PERIOD

January 9, 1986 to March 17, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

Under thirty-five (35) years of age

4. DESCRIPTION OF TRAINING

- 1) Personal computer introduction
- 2) Introduction to BASIC
- 3) Advanced BASIC
- 4) Business management tools
- 5) Database introduction
- 6) Database workshop
- 7) Basic system design
- 8) Workshop on system design
- 9) Observation tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

PUBLIC UTILITY WORKS

No. 28

WATER WORKS ENGINEERING (上水道施設)

1. PERIOD

May 16, 1985 to August 16, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Between 25 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - General problems and administration
 - Water supply planning
 - Design for water works facilities
 - Hydraulics and water hammer
 - Design and construction of pipe
 - Water works management
 - Effective utilization of water and conservation use of water
 - Industrial water supply
 - Purification plant control
 - Leakage prevention
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Health and Welfare
- 2) Japan Water Works Association

6. REMARKS

No. 29

SEWAGE WORKS ENGINEERING (下水道技術)

1. PERIOD

September 5, 1985 to December 9, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Senior technical officers
- 4) *Good working knowledge of English*
- 5) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic concept of sewage works
 - Collection system
 - Wastewater treatment
 - Sludge handling
 - Case study
 - Water quality monitoring
 - Advanced wastewater treatment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) City Bureau, Ministry of Construction
- 2) Japan Sewage Works Agency

6. REMARKS

No. 30

SOLID WASTE MANAGEMENT AND NIGHT SOIL TREATMENT (廃棄物処理)

1. PERIOD

May 23, 1985 to July 29, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Three years or more experience in their respective fields
- 3) Technical officials in charge of solid waste management (domestic and industrial solid waste management including night soil treatment) in central or provincial government or in local bodies
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction
 - Planning
 - Refuse collection and transportation
 - Solid waste disposal
 - Night soil treatment
 - Country report
 - Introduction of solid waste analysis
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Planning division, Water Supply and Environment Department, Environmental Health Bureau
- 2) Department of Sanitary Engineering, The Institute of Public Health
- 3) Japan Environmental Sanitation Centre

6. REMARKS

TRANSPORTATION AND TRAFFIC

No. 31

AIDS TO MARINE NAVIGATION (航路標識)

1. PERIOD

August 22, 1985 to October 26, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) High school graduates or equivalent with sufficient knowledge on physics
- 2) Middle class officers in the field of aids to marine navigation service
- 3) Under 45 years of age
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Maritime Traffic in Japan
 - Aids to Navigation System in Japan
 - Visual Aids to Navigation
 - Outline of Buoys
 - Outline of Radio Aids to Navigation
 - Treatment of Lighthouse Monitoring Equipment
 - Automatic Control for Lighthouse
 - Treatment of Lighting Equipment
- 2) Observation tours
 - Maritime Safety Agency Research Centre
 - Maritime Safety School
 - Omega Data Analysis Centre
 - Tokyo Lighted Beacon
 - Decca Station
 - Loran Station
 - Tokyo Bay Traffic Advisory Service Centre
 - Vessel Traffic Information Station
 - Hesaki Lighthouse
 - Tidal Stream Signal Station
 - Omega Station
 - Aids to Navigation Research Vessel
 - Buoy Tender
 - Wave Activated Generator Factory
 - Buoy Factory
 - Air Cell Factory
 - Solar Battery Factory
 - Chain Factory

5. FACILITIES AND INSTITUTIONS

Maritime Safety Agency

6. REMARKS

No. 32

RAILWAY ROLLING STOCK ENGINEERING (鉄道車両)

1. PERIOD

July 11, 1985 to October 3, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 7 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Railways and rolling stocks in Japan
 - Planning and administration of rolling stock
 - Design and specification of rolling stock
 - Procurement and inspection of rolling stock, administration and repair of rolling stock
 - Planning on maintenance and repair of rolling stock
 - Rolling stock maintenance and repair engineering
 - Rolling stock maintenance and repair programme control: railway workshop management
 - Rolling stock manufacturing engineering
 - Rolling stock manufacturing process control and factory management
 - Train utilization
 - Industries and facilities related to rolling stock
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japanese National Railways (JNR)
- 2) Japan Rolling Stock Exporter's Association
- 3) Ministry of Transport
- 4) Japan Association of Rolling Stock Industries

6. REMARKS

No. 33

RAILWAY SIGNAL ENGINEERING (鉄道信号)

1. PERIOD

January 9, 1986 to April 26, 1986 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 7 years
- 3) Qualified in their respective fields
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) *Lectures and practical training*
 - Types and functions of railway signal used in Japan
 - Control and administration of signal facilities
 - Communication for train operation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Japanese National Railways (JNR)
- 3) Japan Association of Signal Industries (JASI)

6. REMARKS

No. 34

**MAINTENANCE AND IMPROVEMENT
ENGINEERING OF PERMANENT WAYS** (鉄道線路保守改良)

1. PERIOD

May 9, 1985 to August 12, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of railway in Japan
 - Construction of railway in Japan
planning for construction work, stations designing of track, permanent way structure, etc.
 - Maintenance of track and structure
modern method and techniques of track maintenance for higher speed and low cost, reinforcement of structure, inspection of track, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Japanese National Railways (JNR)
- 3) Japan Railway Construction Public Corporation
- 4) Osaka International Training Centre, JICA

6. REMARKS

No. 35

RAILWAY ELECTRIFICATION (鉄道電化)

1. PERIOD

October 3, 1985 to December 6, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 7 years
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Planning of railway electrification
 - Economic effects by railway electrification
 - Facilities and equipments for railway electrification
 - Planning of train operation
 - Measures for train's speed-up and permanent way
 - Industries concerned and others
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Japanese National Railways (JNR)
- 3) Railway Electrification Association

6. REMARKS

No. 36

PORTS AND HARBOURS (SEMINAR) (港湾セミナー)

1. PERIOD

October 3, 1985 to December 1, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
(Senior administrative work)
- 3) Occupational experience of more than 8 years
- 4) Between 35 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Administration and management of ports and harbours
 - Technical aspects of port development
 - Port planning in general
 - Port management and operation
 - Cargo handling operation
 - ** · Discussion on the present situation and problems of ports and harbours in the participating countries
 - Discussion on the port administration, port operation and port planning
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Bureau of Ports and Harbours, Ministry of Transport

6. REMARKS

No. 37

PORT AND HARBOUR ENGINEERING (港湾工学)

1. PERIOD

April 25, 1985 to September 3, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of ports and harbours in Japan
 - Planning techniques of ports and harbours
 - Design techniques of port and harbour facilities
 - Execution techniques of port and harbour works
 - Basic theory of port and harbour engineering
- 2) Exercise
 - Design of ports and harbour facilities
- 3) Intensive study on harbour works at Onahama Port
- 4) Discussions on technical problems in ports and harbours in participating countries
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Bureau of Ports and Harbours, Ministry of Transport
- 2) Port and Harbour Research Institute
- 3) District Port Construction Bureaus

6. REMARKS

No. 38

SHIPPING BUSINESS (海運経営実務)

1. PERIOD

September 5, 1985 to November 7, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under thirty five (35) years of age
- 5) Good working knowledges of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - International and Japanese shipping situations
 - Shipping administration in Japan
 - Cargo transport business
 - Development of ports and harbours in Japan
 - Other related lectures
 - In-service training at shipping company
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Shipping Bureau, Ministry of Transport
- 2) Maritime International Cooperation Centre

6. REMARKS

No. 39

ADMINISTRATION FOR SEAMEN'S EDUCATION (船員教育行政)

1. PERIOD

October 3, 1985 to November 13, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and observations
 - Seamen's education and training
 - Qualification for ships officer
 - Labor standards of seamen
 - Seamen's welfare
 - Employment system for seamen
 - Mariners' insurance system
 - Present situation and the future of shipping
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Seafarers Bureau, Ministry of Transport
- 1) Maritime International Cooperation Centre

6. REMARKS

No. 40

SHIPBUILDING MANAGEMENT (SEMINAR) (造船経営管理セミナー)

1. PERIOD

January 9, 1986 to March 13, 1986 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) More than 8 years occupational experience in the field of management in the governmental, public, or shipyards organization
- 3) Between 35 and 50 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) General Orientation on Japan
- 2) Lectures
 - Japanese shipbuilding industries
 - Planning, business and financial system of shipyards
 - Production management of shipyards
 - Problem of future strategy in shipbuilding industry
- 3) Discussion on the present situation of shipbuilding management
- 4) Observation tours to major shipyards

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Overseas Shipbuilding Co-operation Centre

6. REMARKS

No. 41 -1

MARINE TECHNIQUE (NAVIGATION) (航海技術(航海士))

1. PERIOD

June 27, 1985 to June 27, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) High school graduates who are engaged in maritime affairs, with the experience of more than three (3) years of on-board Navigation service, or those who have the equivalent knowledge and experience
- 2) Male, between twenty-two (22) and thirty-five (35) years of age
- 3) Good working knowledge of English
- 4) Good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) General Orientation | 11) Ship Power Plant |
| 2) Japanese Language | 12) Cargo Handling and Stowage |
| 3) Navigation Instrument | 13) Fire Prevention and Fire Fighting Appliances |
| 4) Terrestrial, Coastal and Celestial Navigation | 14) Emergency Procedures |
| 5) Radar Navigation and Electronic Navigation Aids | 15) Medical Care and Aid |
| 6) Voyga Planning | 16) Life Saving |
| 7) Ship Construction, Stability and Damage Control | 17) Search and Rescue |
| 8) Watchkeeping | 18) Communication by Radio and Visual Signaling |
| 9) Meteorology and Oceanography | 19) Maritime Laws and Regulations |
| 10) Ship Manoeuvring and Handling | 20) IMCO Standard Maritime Navigational Vocabulary |

5. FACILITIES AND INSTITUTIONS

Okinawa Marine Technical College (Japan Seamen Education Service)

6. REMARKS

Programme for ASEAN countries

MARINE TECHNIQUE (ENGINEER) (航海技術(機関士))

1. PERIOD

June 27, 1985 to June 7, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) High school graduates who are engaged in maritime affairs, with the experience of more than three (3) years of on-board Engineering service, or those who have the equivalent knowledge and experience
- 2) Male, between twenty-two (22) and thirty-five (35) years of age
- 3) Good working knowledge of English
- 4) Good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- | | |
|---------------------------------------|---|
| 1) General orientation | 13) Fuels and Lubricants |
| 2) Japanese Language | 14) Basic Knowledge of Engineering |
| 3) Diesel Engines | 15) Naval Architecture and Ship Construction |
| 4) Steam Turbines | 16) Jobs in Shi-yards and Watchkeeping |
| 5) Gas Turbines | 17) Procedures for Protection of Marine Environment |
| 6) Propeller and Propulsion Systems | 18) Fire Prevention and Fire Fighting Appliances |
| 7) Main and Auxiliary Boilers | 19) Prevention for Flood and Emergency Procedures |
| 8) Auxiliary Machineries | 20) Medical Care and Aid |
| 9) Refrigerator | 21) Life Saving |
| 10) Ships' Work-shop | 22) Prevention for Health Hazards |
| 11) Automatic Control Systems | 23) Maritime Laws and Regulations |
| 12) Electric and Electronic Equipment | |

5. FACILITIES AND INSTITUTIONS

Okinawa Marine Technical College (Japan Seamen Education Service)

6. REMARKS

Programme for ASEAN countries

No. 42

AERODROME (SEMINAR) (空港セミナー)

1. PERIOD

August 22, 1985 to October 13, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) *University graduates or equivalent*
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under forty (40) years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - *Economic cooperation and technical assistance of Japan by CAB*
 - *Airport planning*
 - *Airport administration*
 - *Airport development*
 - *Airport design and construction*
 - *Present status of air transportation in his country*
 - *Any other subjects related to civil aviation of his country*
- 2) Discussion on the subjects of country reports
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Civil Aviation Bureau, Ministry of Transport

6. REMARKS

No. 43

URBAN TRANSPORT (SEMINAR) (都市交通セミナー)

1. PERIOD

May 16, 1985 to July 12, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than three (3) years
- 3) *Presently engaged in urban transport administration preferably in the field of railway*
- 4) Under forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) *General orientation on Japan*
- 2) Lectures
 - *Outline of urban transport in Japan*
 - *Specific characteristics of each mode*
 - *Method of general urban transport planning*
 - *Case study of the actual railway project*
- 3) Discussion on the subjects of country reports
- 4) Observations

5. FACILITIES AND INSTITUTIONS

Ministry of Transport

6. REMARKS

No. 44

COMPREHENSIVE URBAN TRANSPORTATION PLANNING

(総合都市交通施設計画)

1. PERIOD

October 10, 1985 to December 7, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduate or equivalent with occupational experience of more than three (3) years
- 2) Presently engaged in urban transport administration
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Presentation of country reports and discussions
- 2) Lectures
 - Viewpoint of urban transportation planning
 - Socio-economic system and urban transportation planning
 - Urban transport survey system
 - Comprehensive urban transportation planning
 - Urban transport facilities planning
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 45

SEISMOLOGY AND EARTHQUAKE ENGINEERING (地震工学)

1. PERIOD

September 12, 1985 to August 25, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Well versed in elementary mathematics (Differential and integral calculus, etc.)
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Both of courses: General seismology, basic programming of computer, etc.
 - Seismology course: Seismological application computer, elasticity, etc.
 - Earthquake engineering course: Earthquake resistant design of building structure, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 46

METEOROLOGY (気 象 学)

1. PERIOD

September 5, 1985 to December 23, 1985 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Disturbances in middle and low latitudes
 - Typhoon forecasting practice, long-range forecasting of tropical storm, data exchange
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japan Meteorological Agency
- 2) Meteorological Research Institute of JMA
- 3) Meteorological Satellite Centre of JMA
- 4) Meteorological College of JMA

6. REMARKS

No. 47

SEISMOLOGY AND EARTHQUAKE ENGINEERING (SEMINAR) (地震工学セミナー)

1. PERIOD

November 14, 1985 to December 13, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Preferably ex-participants in Group Training Course in Seismology and Earthquake Engineering or their equivalent
- 2) Engaged in the field of Seismology and Earthquake Engineering more than 10 years
- 3) More than 35 years of age
- 4) Having a sufficient command of spoken and written English
- 5) Good health

4. DESCRIPTION OF TRAINING

- 1) Briefing
- 2) Presentation of Reports and Discussion
- 3) Lectures
- 4) Observation Trip to Kansai District
- 5) Closing Ceremony

5. FACILITIES AND INSTITUTIONS

- 1) International Institute of Seismology and Earthquake Engineering, Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

INFRASTRUCTURE

No. 48

BRIDGE ENGINEERING (橋梁工学)

1. PERIOD

August 15, 1985 to November 1, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Qualified in their respective fields
- 3) Presently engaged in highway construction
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Structural analysis of bridges
 - Bridge design theory
 - Design and construction of reinforced concrete bridge
 - Design and construction of prestressed concrete bridge
 - Design and construction of composite beams
 - Design and construction of foundation
 - Aerodynamic design
 - Maintenance of bridge
- 2) Observation

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 49

HIGHWAY CONSTRUCTION (SEMINAR) (ハイウェイセミナー)

1. PERIOD

September 26, 1985 to November 17, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Graduated from any educational institute (technical) or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Road system planning
 - Maintenance and repairs
 - Pavement earth work
- 2) Observation tours
 - Road Traffic Information Centre
 - Kansai district

5. FACILITIES AND INSTITUTIONS

- 1) Road Bureau, Ministry of Construction
- 2) Public Works Research Institute, Ministry of Construction

6. REMARKS

No. 50

CONSTRUCTION ENGINEERING (CIVIL WORKS) (建設施工)

1. PERIOD

August 29, 1985 to December 19, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates who are specialized in civil engineering, or equivalent
- 2) Occupational experience of more than 5 years in planning, design, execution and project control of construction
- 3) Good working knowledge of English
- 4) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - International Construction Project
 - Basic engineering
 - Construction Management
 - Construction Technology (Road and Others)
- 2) Observation
 - Visit and observation to construction site
 - Study tour

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Faculty of Engineering, Kyoto University
- 3) Osaka International Training Centre, JICA

6. REMARKS

No. 51

TECHNOLOGY FOR DISASTER PREVENTION (SEMINAR) (防災技術セミナー)

1. PERIOD

August 22, 1985 to November 9, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates in science or technology with occupational experience of more than five years in the field of disaster prevention administration
- 2) Under 40 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Seismology and earthquake damage mitigation
 - Earthquake engineering
 - Prevention against tsunami and fire induced by an earthquake
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Research Center for Disaster Prevention
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 52

SOIL ENGINEERING AND FOUNDATION (土質及び基礎工学)

1. PERIOD

October 17, 1985 to December 17, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent (soil engineering)
- 2) More than 8 years practical experience in central or local governments
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) General Orientation on Japan
- 2) Lectures
 - Outline of earth structures
 - Outline of foundation of structures
 - Site exploration and laboratory soil test
 - Outline of ground water
 - Improvement of soil engineering properties
 - Evaluation of soil foundation design-case study
 - Others
- 3) Discussions with the guidance of Japanese lecturers
 - Soil improvement planning, foundation design, project feasibility, etc.
- 4) Practice
 - Soil survey method
 - Soil test method
 - Foundation design
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 53

REGIONAL DEVELOPMENT PLANNING (SEMINAR) (国土開発セミナー)

1. PERIOD

October 17, 1985 to December 4, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Presently engaged in the planning or implementation of national or regional development projects and policy
- 2) Under forty (40) years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - History of regional development policy in Japan
 - Population problems and regional development planning
 - Urban and rural area development planning
 - Land use plan, water resources development plan, transportation plan and housing plan
 - Disaster countermeasure in Japan
 - Theory and method of regional development planning
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

National Land Agency

6. REMARKS

No. 54

RIVER and DAM ENGINEERING (河川及びダム工学)

1. PERIOD

July 18, 1985 to November 21, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates specialized in civil engineering or equivalent
- 2) Occupational experience of more than 3 years
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Both of groups: Administration of Japanese Rivers, Run-off Calculation, etc.
 - River Improvement and Flood Forecasting group: Flood Forecasting, Design of River Facilities, etc.
 - Multi-Purpose Dam Planning and Construction group: Planning of Dam Project, Design of Dam, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

This course consists of two groups. One is River Improvement & Flood Forecasting Group (A) and the other is Multi-Purpose Dam Planning & Construction Group (B).

No. 55

CITY PLANNING (都市計画)

1. PERIOD

August 8, 1985 to October 19, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Present engagement in city planning
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Urban problems in Japan
 - Regional planning system in Japan
 - City planning system in Japan
 - Land-use planning and building regulations
 - Planning and development of transportation facilities
 - Planning and development of Parks and Greens
 - Planning and development of sewage system and water supply
 - Urban development project
 - Development of new resident cities
 - Housing plan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 56

HOUSING (住宅建設)

1. PERIOD

October 24, 1985 to December 16, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Middle class officers in charge of housing policy
- 2) University graduates or equivalent
- 3) Between 30 and 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Housing conditions and policies in Japan
 - Public housing supply
 - Housing finance
 - Urban planning system and land policy
 - Development of residential area
 - Industrialization of housing production
 - Planning and development of new town
 - Housing problem and housing policy in developing countries
- 2) Discussions
- 3) Presentation of country reports
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 57

BUILDING ENGINEERING (建築技術)

1. PERIOD

January 9, 1986 to March 10, 1986 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be officers of the government or the related government organization
- 3) Present employment at governmental office or other related organization
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Part I. *Supporting conditions of the Japanese building engineering*
 - General study
 - Building legislation (Building construction administration)
 - Public building activities
 - Private building activities
 - Research and educational activities
 - Foreign aids
 - Part II. *Japanese building engineering*
 - Building planning technique
 - Standards, standardization and experiment
 - Building construction technique
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) *Ministry of Construction*
- 2) *Tsukuba International Centre, JICA*

6. REMARKS

No. 58

SURVEYING AND MAPPING (PLANNING & MANAGEMENT) (測量地図作成計画・管理)

1. PERIOD

May 9, 1985 to June 8, 1985 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Be a managing surveyer in the governmental mapping organization
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - a) Survey administration and works in Japan
 - b) Japan's international cooperation in surveying and mapping
 - c) Planning and management of control point survey
 - d) Planning and management of photogrammetry
 - e) Planning and management of map compilation
 - f) Planning and management of map reproduction
 - g) Integration of surveying works
 - h) Computation and management system of information by computer
 - i) Maintenance and management of surveying results
- 2) Observation of the organization concerned

5. FACILITIES AND INSTITUTIONS

- 1) Geographical Survey Institute, Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 59

HYDROGRAPHIC SURVEY (水路測量)

1. PERIOD

May 2, 1985 to November 6, 1985 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent with some occupational experience
- 2) Present employment at national hydrographic office or other related organization
- 3) Under forty (40) years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- | | |
|---|--|
| 1) Orientation by JICA | 15) Geomagnetism |
| 2) Orientation by Hydrographic Department, M.S.A. | 16) Gravity |
| 3) General aspect of hydrographic survey | 17) Outline of computer programming |
| 4) Geodesy | 18) General aspect of photogrammetric survey |
| 5) Map projection | 19) Automatic data logging and processing system |
| 6) Control survey | 20) Field training of harbour and coastal surveys, including tidal observation |
| 7) Coastlining | 21) Field training of ocean survey |
| 8) True north survey | 22) Field training of geomagnetic observation |
| 9) Electronic survey | 23) Data processing of harbour and coastal surveys |
| 10) Sounding | 24) Data processing of ocean survey |
| 11) Harbour survey planning | 25) Observation and study tour |
| 12) Submarine topography and geology | |
| 13) General aspect of ocean survey | |
| 14) Tide | |

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

No. 60

PHYSICAL OCEANOGRAPHIC SURVEY (海洋物理調査)

1. PERIOD

October 31, 1985 to March 15, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Dynamics of ocean current
 - Tide and tidal current
 - Field training of oceanographic observation
 - Data processing of oceanographic observation
 - Field training of tide and tidal current observation
 - Data processing of tidal current observation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

POSTAL SERVICE, COMMUNICATION AND BROADCASTING

No. 61

RADIO FREQUENCY MONITORING (電波監視)

1. PERIOD

August 15, 1985 to October 12, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of radio regulatory administration
 - Legislation of radio regulatory administration
 - Frequency management
 - Licensing for radio stations
 - Technical Certification & Inspection System of Radio Equipment
 - Certification system for radio operators
 - Radio frequency monitoring
 - a) Radio monitoring activities
 - Monitoring system
 - Monitoring services
 - b) Radio monitoring facilities
 - Monitoring equipments and operations
 - Site selection
 - Radio frequency monitoring management
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

No. 62

POSTAL EXECUTIVES (SEMINAR) (郵政幹部セミナー)

1. PERIOD

February 23, 1985 to March 9, 1986 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) Directors or high-ranking officials in charge of postal administration in governmental organizations
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions on problems concerning the management of postal services
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Postal Bureau, Ministry of Posts and Telecommunications

6. REMARKS

No. 63

INTERNATIONAL TELEX COMMUNICATION ENGINEERING (国際テレックス通信技術)

1. PERIOD

August 22, 1985 to November 11, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent who majored in telecommunications and/or electrical engineering
- 3) Currently engaged in international telex communication engineering work
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Fundamentals of Telex Engineering
 - e.g. Introduction
 - Network
 - Trunking
 - Numbering
 - Signalling
 - Operation & Maintenance
 - Toll Ticketing
 - Advanced Services
 - Outline of CT-10 Electronic Telex Switching System
 - e.g. Introduction
 - System configuration
 - Switching
 - Call Processing
 - Toll Ticketing
 - Maintenance
 - Search System
 - Topics on CT-1, CT-11, CT-12 & CT-20 Systems
 - TDM & VFT
 - Traffic Management
- 2) Relevant Techniques
 - Computer: Hardware, Software, Programming
 - Fundamentals of Recent Techniques
- 3) Field practice at relevant KDD field offices
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 64

**INTERNATIONAL TELEGRAPH AND TELEPHONE
SERVICES (TRAFFIC AND COMMERCIAL) (國際電信電話業務)**

1. PERIOD

April 25, 1985 to July 8, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Presently engaged in traffic and commercial work of international telegraph or telephone services
- 3) Occupational experience of more than 5 years in the field of international telecommunication services
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction (KDD's Telecommunication Systems, Microcomputer, Programming Exercise by BASIC)
 - Services, Operation and Systems (Telegraph, Telex, Telephone)
 - Other Services and Systems (Leased Channel, AUTOMEX, Data Communication, Submarine Cable System, Satellite System)
 - Traffic Demand Forecast
 - Circuit Planning
 - Tariff System
 - Accounting Procedures (Billing and Collection, International Accounting, Business Computerization)
- 2) Field Practice
 - Field Practice will be conducted at relevant KDD field offices.

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 65

DIGITAL SWITCHING SYSTEMS ENGINEERING (I) (デジタル交換技術(I))

1. PERIOD

April 5, 1984 to July 15, 1984 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent
- 3) Working for telecommunication administrations or common career organizations
- 4) Sufficient practical experience on their own switching systems
- 5) Under 40 years of age
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic and theoretical technology for switching system
e.g. Routing, numbering, signaling, charging plan and outline of traffic theory
 - Electronic switching system (ESS)
 - Practical exercise using D70
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 66

RADIO COMMUNICATION ENGINEERING (I) (無線通信技術(I))

1. PERIOD

July 11, 1985 to October 20, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University or college graduates or equivalent who majored in telecommunication or electrical engineering
- 3) Working for telecommunication administrations or common carrier organizations
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic microwave communication engineering;
FM Transmission theory, digital transmission theory, and microwave propagation
 - Microwave communication systems
 - Microwave communication equipment;
Repeater, power plant, antenna and components & devices
 - Practical experiments and system design
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 67

DIGITAL LINE TRANSMISSION SYSTEMS ENGINEERING (デジタル有線伝送技術)

1. PERIOD

May 2, 1985 to August 12, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Working for telecommunication administrations or common carrier organizations
- 3) Under 40 years of age
- 4) A sufficient command of spoken or written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Transmission system basic and theoretical knowledge
In this subject, transmission techniques or concepts which intensify the understanding of transmission system are dealt with such as various amplifier circuits, modulator & demodulator and pulse circuits.
 - Frequency division multiplex systems
Various kind of FDM systems are briefly explained, including the latest development trends.
 - Time division multiplex systems
General knowledge of TDM, from the principles to introductions for actual systems, are dealt with.
 - Application technique
Application technique required for transmission system is also given, such as transmission planning, plant designing and so forth.
 - Practical studies based on PCM-24B system and CP-12M coaxial cable system
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 68

TELECOMMUNICATION OUTSIDE PLANT ENGINEERING (通信線路技術)

1. PERIOD

June 13, 1985 to September 22, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent
- 3) Working for telecommunication administrations or common carrier organizations
- 4) Sufficient practical experience on telephone outside plant system
- 5) Under 40 years of age
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic and Theoretical Subjects
e.g. demand forecast, fundamental telephone network plan and engineering economy
 - Outside plant designing
 - Outside plant construction and maintenance
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 69

TELECOMMUNICATION MANAGEMENT (SEMINAR) (電気通信幹部セミナー)

1. PERIOD

November 24, 1985 to December 8, 1985 (0.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) Directors general or high-ranking officials responsible for management or administration of telecommunications in government or operational organizations
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Management of telecommunications
 - Introduction to telecommunication management in Japan
 - Present situation and future telecommunication management
 - Problems of telecommunication management particularly in participating countries
 - Various related institutions and manufacturing plants
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

No. 70

SATELLITE COMMUNICATION ENGINEERING (REGULAR) (衛星通信技術〔普通〕)

1. PERIOD

April 25, 1985 to July 29, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent majored in telecommunications or electric/electronic engineering
- 3) Fundamental knowledge of microwave engineering such as microwave propagation, microwave elements and microwave communication system
- 4) Experience in the field of INTELSAT satellite communications service
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of satellite communications
 - Review of microwave engineering
 - Transmission system
 - Communication satellite (IS-IV A and IS-V)
 - Earth station facilities
 - System Design
 - Operation and Maintenance
- 2) Observation tours
 - Earth station system configuration
 - Earth station facilities

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 71

SATELLITE COMMUNICATION ENGINEERING (ADVANCED) (衛星通信技術〔上級〕)

1. PERIOD

August 22, 1985 to November 4, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates specializing in telecommunications or electrical engineering or equivalent
- 2) Occupational experience of not less than three years in INTELSAT Satellite communication service
- 3) Currently engaged or expected to engage in satellite communication service
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - INTELSAT
 - (1) Organization and Activities
 - (2) Operations Representatives
 - (3) Recent Topics in Advisory Committee on Technical Matters
 - System Design
 - (1) Technical Characteristics of Standard Earth Stations
 - (2) Designing of Earth Station Telecommunication System
 - (3) Designing of Satellite Communication Circuits
 - Communication Satellite
 - Transmission System
 - (1) SPADE/SCPC System
 - (2) New Technology in Transmission System
 - System Management
 - (1) Wideband Circuit Management
 - (2) Trouble Alarm Processing System (TAPS)
 - (3) Maintenance Management
 - Technology for Future Satellite Communication System
 - Outline of Maritime Satellite Communication System
 - Field Study at Earth Stations
 - Organization, General Management and Job Breakdown
 - Earth Station System Configuration
 - Operation Management
 - Maintenance Management
 - Procedures for Carrier Size Expansion
 - Analysis of Group Delay Distortion
 - Measurements and Operation of Antenna System
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 72

TELECOMMUNICATION NETWORK PLANNING AND DESIGNING (通信網計画設計)

1. PERIOD

October 10, 1985 to January 26, 1986 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunication or electrical engineering
- 2) Working in telecommunications or common carrier organizations
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - (1) Fundamental telecommunication network design
In this study, the following techniques required in the design of telecommunication systems are dealt with. Such capabilities are indispensable not only when the telecommunication network is designed, but also when manual exchange systems are shifted into nation-wide toll dialing systems. They include (i) routing, (ii) numbering, (iii) rating, (iv) signaling, and (v) transmission standards.
 - (2) Outline of various systems
Brief explanations are given on switching system, outside plant facilities, radio and line transmission systems, including applications.
 - (3) Telecommunication network planning
Forecasting methodology and procedures for telecommunication network planning are covered. Study items are (i) demand forecasting, (ii) traffic forecasting, (iii) toll trunk line expansion programme, (iv) toll switching system expansion programme, (v) transmission system expansion programme and (vi) economic study.
Case studies are also included on in planning procedure.
- 2) Observation tours to Kansai Area

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 73

INTERNATIONAL TELEPHONE SWITCHING ENGINEERING (国際電話交換技術)

1. PERIOD

January 9, 1986 to March 30, 1986 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Under 45 years of age
- 3) Good working knowledge of English
- 4) Basic knowledge of telephone switching technology

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - International telephone service operation: Genera. Semi-automatic operation and ISD Service
 - Considerations in telephone switching system planning
 - (1) Planning of international telephone switching system
 - (2) Traffic management
 - (3) Telephone network;
 Network structure, Numbering plan, Routing plan and Signalling systems
 - (4) General requirements;
 Switching machine, switchboard and Accessory equipment
 - Fundamental of electronic telephone switching system
 - (1) Basic computer technology
 - (2) Programming technology
 - (3) Basic concepts of electronic switching system
 - *Stored-programme-controlled switching system*
 General, Features, Trunkig scheme, System performance, Hardware system, Software system and Operation maintenance
 - Digital switching system
- 2) Field practice
Field practice will be conducted at relevant KDD field offices.
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

DIGITAL SWITCHING SYSTEMS ENGINEERING (II) (デジタル交換技術(II))

1. PERIOD

August 1, 1985 to November 10, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Working for telecommunication administrations or common career organizations
- 3) Sufficient practical experience on their own switching systems
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Lectures and practical training

~ *Basic and theoretical technology for switching system*

The basic concept of a telephone switching system, which consists of routing, numbering, signaling, charging plan and an outline of traffic theory, will be explained. This information will give the participants background data on fundamental functions regarding operations of a telephone switching system composing a part of a telephone network.

~ *Electronic switching systems (ESS)*

- (1) Stored programme characteristics, switching process, hardware and software configuration of the D70 ESS (Digital) will be explained.
- (2) A series of procedures from traffic forecasting to plant-design of the D70 system via equipment estimation will be explained, including a case study. Maintenance philosophy will be briefly presented.

~ *Practical studies*

Participants will conduct practical exercise, using D70 installed at NTT's Central Training School, to increase the knowledge acquired during lectures as well as emphasizing practical applications of this data.

2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

All participants are requested to submit a brief report written in English on the present situation of telecommunications, its future programs and its problems in applicants' country.

No. 75

INTERNATIONAL DATA COMMUNICATIONS ENGINEERING (国際データ通信技術)

1. PERIOD

January 9, 1986 to March 24, 1986 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent, majoring in telecommunication and/or electrical engineering
- 2) Have a basic knowledge of Computer
- 3) Currently engaged or expected to engage in the engineering field of International Data Communication Services
- 4) Under 40 years of age
- 5) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction (Present and Trend of International Data Communication, Structure of International Data Network, etc.)
 - Data Transmission Engineering
 - Data Switching Systems
 - Data Communications Protocol
 - Data Terminal Equipments
 - Data Communications Services in Japan
 - Data Communications Services in Foreign Countries
 - VENUS
 - Envision of Future Data Communications
- 2) Field practice
 - Field practice will be conducted at relevant KDD field offices
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 76

RADIO COMMUNICATION ENGINEERING (無線通信技術(II))

1. PERIOD

August 22, 1985 to December 1, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunication or electrical engineering
- 2) Working for telecommunication administrations or common career organizations
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic radio communication engineering; FM transmission theory, digital transmission theory, microwave propagation
 - Radio communication systems; line-of-sight FM and digital systems, trans-horizon systems, satellite systems, mobile radio-systems and rural telecommunication system
 - Radio communication equipment; repeater, power plant antenna and components & devices
 - Practical experiments and system designing work
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 77

DATA COMMUNICATION ENGINEERING (データ通信技術)

1. PERIOD

October 31, 1985 to February 9, 1986 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Working for telecommunication administrations or common career organizations
- 2) University graduates or equivalent
- 3) Have a sufficient command of spoken and written English
- 4) Under 35 years of age

4. DESCRIPTION OF TRAINING

1) Lectures

- Basic and Theoretical Technology for Data Communication Systems
The basic concept of a data communication system consisting of information network, data transmission, transmission control procedures and computer technology will be explained.
- Digital Data Switching Systems
The switching process, and the hardware and software of the D-50 system will be explained. This will include an outline of the various digital data switching systems in the world. Maintenance philosophy will be briefly presented.

2) Practical studies

Participants will conduct practical exercises, using the D-50 system installed at NTT's training school, to increase knowledge acquired from lectures.

3) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT)

6. REMARKS

No. 78

COLOR TELEVISION ENGINEERING (I) (テレビジョン放送技術 (I))

1. PERIOD

July 18, 1985 to October 7, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engineers serving in a broadcasting organization with a few years of practical experience in TV engineering
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Color Theory
 - Color TV Standards
 - Camera Tubes
 - Color Cameras
 - VTR and Telecine
 - Digital Engineering for Color TV
 - TV Transmitter
 - Outside Broadcasting
 - Measurement
 - Color TV Receiver and other Color TV Engineerings
 - Field Practical Training
 - (1) Programme Production Technique
 - (2) VTR and Telecine
 - (3) TV Transmitter
- 2) Observations
 - Manufacturers
 - NHK Broadcasting Centre
 - Tokyo Tower
 - NHK Technical Research Laboratories
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) NHK Central Training Institute
- 2) Other NHK facilities

6. REMARKS

No. 79

EDUCATIONAL TELEVISION PROGRAMME (I) (教育テレビジョン番組(I))

1. PERIOD

August 1, 1985 to October 7, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields (as a programme director)
- 3) Occupational experience of 5 to 10 years
- 4) Under 35 years of age
- 5) Good working knowledge of English
- 6) Continue working in the above mentioned field after returning to home countries

4. DESCRIPTION OF TRAINING

- 1) Lectures, discussions and practical training
 - General idea of educational television
 - The fundamental production technique for educational programmes
 - The applied production technique for educational programmes
 - Practical training at NHK programme production site.
- 2) Observation tours
 - An observation trip to local station of NHK

* Besides the above-mentioned, observation studies on programming at studios, discussions with producers and exchanges of opinions with specialists in broadcasting for education in Japan, are also scheduled in the training course.

5. FACILITIES AND INSTITUTIONS

- 1) NHK Central Training Institute
- 2) Other NHK facilities

6. REMARKS

All participants are requested to submit a report (written in English within 2,000 words) and TV programmes which was produced by your own TV station to NHK Central Training Institute upon their arrival in Tokyo.

No. 80

TELEVISION BROADCASTING MANAGEMENT (テレビジョン放送管理)

1. PERIOD

May 9, 1985 to June 21, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) College or university graduates or equivalent
- 2) Staffs higher than division-chiefs engaged in administrative or planning departments of television broadcasting organizations
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Outline of Broadcasting Administration
 - Present Broadcasting Situation
 - Management of NHK
 - Subscription Fee System
 - Public Opinion Research
 - News Programme
 - Educational Television Programme
 - Personnel Training System
 - Broadcasting Engineering
 - Present Situation of Commercial Broadcasting
 - Management of Commercial Broadcasting Stations
 - Commercial Programme
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Center, JICA
- 2) Ministry of Posts and Telecommunications

6. REMARKS

The study programme is designed to cover overall subjects concerning television broadcasting management such as its system, engineering, finance, programme planning, etc. in view of the fact that such a wide range of knowledge is indispensable to managing staff in running television broadcasting.

Therefore, the participants are expected to follow up the schedule throughout the course in order to learn solutions to the problems of television broadcasting management regardless of one's interests or specialties.

However, it is desirable that those who are interested particularly in studying more specialized field of production methods of television programmes or television engineering should apply for "Education Television Programme Course" or "Television Engineering Course" which are also organized by the Government of Japan.

All participants are requested to submit a report written in English within 1,000 words on the brief summary of present conditions and problems on TV broadcasting in their respective countries including the chart of the participant's organization to the Ministry of Posts and Telecommunications upon arrival in Japan (preferably type-written).

No. 81

BROADCASTING MANAGEMENT (SEMINAR) (放送幹部セミナー)

1. PERIOD

October 13, 1985 to October 27, 1985 (0.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Directors general or equivalent high-ranking officials responsible for management or administration of broadcasting in government or operational organizations
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Discussion
 - Outline of Broadcasting in Japan
 - Management and Organization of Broadcasters in Japan
 - Free Discussion using the Country Reports
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Radio Regulatory Bureau, Ministry of Posts and Telecommunications

6. REMARKS

All applicants are requested to submit a brief report written in English on the present situation of broadcasting and its problems in an applicant's country

No. 82

RADIO BROADCASTING ENGINEERING (RADIO TRANSMITTING) (ラジオ放送技術)

1. PERIOD

July 18, 1985 to September 16, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Good working knowledge of English
- 5) Between 23 and 45 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Transmitting system in general
 - Basic theory
 - Outline of MW transmitter
 - Transmitter circuit
 - Outline of MW antenna
 - MW antenna
 - Field practice at MW transmitting station
 - FM broadcasting transmission
 - FM transmitter
 - FM antenna and VHF propagation
 - Full solid-state transmitter
 - Solid-state TX circuits
 - MW propagation and field strength measurement
 - Shortwave transmitter and antenna
 - Practical training and observation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) NHK Central Training Institute.
- 2) Other NHK facilities

6. REMARKS

No. 83

COLOR TELEVISION ENGINEERING (II) (テレビジョン放送技術(II))

1. PERIOD

January 16, 1986 to March 10, 1986 (2.0-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Be engineers serving in a broadcasting organization with a few years of practical experience in TV engineering or those who have knowledge of TV engineering enough to undergo this training course
- 2) Be college graduates or those who have the equivalent technical knowledge in electronic engineering
- 3) Have a sufficient command of spoken and written English
- 4) Be healthy enough to undergo the course of training

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Television Broadcast Systems
 - Color Television Standards
 - Color Television Cameras
 - Video Tape Recorders
 - Program Control Room Facilities
 - Master Control Room Equipment
 - Digital Engineering for Color Television
 - Maintenance and Planning and other Color Television Engineerings
- 2) Observations
 - NHK Broadcasting Center
 - NHK Technical Research Laboratories
 - Manufacturers
- 3) Observation tours
 - NHK Local Station
 - Kansai District

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Posts and Telecommunications
- 2) NHK Central Training Institute
- 3) Other NHK facilities

6. REMARKS

No. 84

EDUCATIONAL TELEVISION PROGRAMME (II) (教育テレビジョン番組(Ⅱ))

1. PERIOD

January 16, 1986 to March 10, 1986 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields (as a programme director)
- 3) Occupational experience of about 10 years
- 4) Under 40 years of age
- 5) Good working knowledge of English
- 6) Continue working in the above mentioned field after returning to home countries

4. DESCRIPTION OF TRAINING

- 1) Lectures, discussions and practical training
 - General idea of educational television
 - The production technique for educational programmes
 - The applied production technique for educational programmes
 - Practical training at NHK programme production sight
 - Introduction of New Technology in the broadcasting field
 - Programme screening and analysis session
- 2) Observation tours
 - An observation trip to local station of NHK and primary school

5. FACILITIES AND INSTITUTIONS

- 1) NHK Central Training Institute
- 2) Other NHK facilities

6. REMARKS

All participants are requested to submit a report (written in English within 2,000 words) and TV programmes which was produced by your own TV station to NHK Central Training Institute upon their arrival in Tokyo.

AGRICULTURE

No. 85

AGRICULTURAL CO-OPERATION (農業協同組合)

1. PERIOD

May 9, 1985 to July 7, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - General aspects of agricultural co-operatives in Japan
 - Practical operation of primary society
 - Studies in detail of co-operative business
 - Co-operative management and organizational problems
 - Studies on various kinds of co-operative activities
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute for the Development of Agricultural Cooperation in Asia

6. REMARKS

AGRICULTURAL EXTENSION SERVICE (農業普及)

1. PERIOD

April 4, 1985 to July 28, 1985 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Engaged in extension work for farmers or those engaged in a training of extension advisers, subject matter specialist (SMS) or administration officer related to the agricultural extension with more than three years of experience
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Agriculture and its extension services in Japan
 - Basic theory of extension method
 - Extension activities in the countries of participants
- 2) Observation tours
 - Extension offices and farm houses
 - Experimental research facilities
- 3) Field study
 - Administration and management of extension service and education by the local government
 - Visit to extension stations, experimental research institutions and private companies, etc.

5. FACILITIES AND INSTITUTIONS

- 1) Extension and Education Division, Agricultural Production Bureau, Ministry of Agriculture, Forestry and Fisheries
- 2) Japan Agricultural Development and Extension Association

6. REMARKS

No. 87

RICE CULTIVATION (GENERAL) (稲作(一般))

1. PERIOD

March 6, 1986 to October 10, 1986 (7.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Good working knowledge of English
- 4) Within 25 to 35 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Agriculture in the world, rice culture in Japan, rice breeding and plant protection, soil and fertilizer, farm machinery, land improvement
 - Extension work, survey, administration
- 2) Observation tours
 - Agril. institutions, Experimental stns.
 - Agril. coops., extension organizations
 - Farmer's organizations

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

No. 88

HOME-LIFE IMPROVEMENT EXTENSION (生活改善普及)

1. PERIOD

May 30, 1985 to August 15, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Female
- 2) Qualified in their respective fields
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of agriculture and home-life in Japan
 - Agricultural improvement extension activities
 - Home-life improvement extension activities
 - Technique for home-life improvement
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Agriculture, Forestry and Fisheries
- 2) The Rural Home and Family Living Improvement Study Association

6. REMARKS

No. 89

AGRICULTURAL STATISTICS (農林統計)

1. PERIOD

July 18, 1985 to October 14, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields (*Planning Administration*)
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Agricultural situation and statistics in Japan
 - Method of statistical survey
 - Survey for the basic structure on agriculture
 - Survey on agricultural economics
 - Outline of Forestry, Fishery survey and Marketing information service
 - Utilization of computer

5. FACILITIES AND INSTITUTIONS

- 1) Statistics and Information Department, Economic Bureau, Ministry of Agriculture, Forestry and fisheries
- 2) National Federation of Statistics Association on Agriculture & Forestry

6. REMARKS

No. 90

VEGETABLE CROPS PRODUCTION (野菜生産)

1. PERIOD

February 6, 1986 to November 29, 1986 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates (or their equivalents) with the occupational experience of more than three years in their specialities
- 2) Presently engaged in the extension service or research work, or be training officers in charge of vegetable horticulture or agronomists who are to work in the said field having a good knowledge of vegetable cultivation
- 3) Between twenty seven (27) and thirty seven (37) years of age
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

The course deals with the following subjects through lectures, experiments, practices and observations in study tours, employing major vegetable crops in Japan.

- 1) Applicable method of intensive cultivation of major vegetable crops
- 2) Fundamental knowledge on plant physiology, plant protection and soil in relation to high yielding in vegetable crops
- 3) Principal matters pertaining to rationalization of vegetable marketing and circulation

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

No. 91

CONTROL OF RICE DISEASES AND INSECT PESTS (稲病害虫防除)

1. PERIOD

May 30, 1985 to December 10, 1985 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - General view on rice cultivation in Japan
 - General principles of rice diseases and insect pests control
 - Rice diseases
 - Rice insect pests
 - Pesticides and Application methods
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo Prefectural Agricultural Research Centre
- 2) Department of Plant Protection, Faculty of Agriculture, Kobe University

6. REMARKS

No. 92.

PESTICIDE UTILIZATION FOR PLANT PROTECTION (農薬利用)

1. PERIOD

January 9, 1986 to June 5, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 35 years of age
- 5) Good working knowledge of English
- 6) Request to attain skill to operate Gas Chromatograph during their stay in Japan

4. DESCRIPTION OF TRAINING

- 1) Orientation on Specific Subject
- 2) Training on Specific Subject Matters
 - Lecture
 - Experiment
 - Field Practice
 - Observation Tours and Visits
 - Evaluation

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Center, JICA
- 2) Agricultural Experiment Station, Hyogo Prefectural Agricultural Research Center
- 3) Department of Plant Protection, Faculty of Agriculture, Kobe University
- 4) National Institute of Hygienic Sciences, Osaka Branch

6. REMARKS

No. 93

PLANT GENETIC RESOURCES (植物遺伝資源)

1. PERIOD

April 25, 1985 to July 6, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be on duty of maintenance and management of plant genetic resources
- 3) *Good working Knowledge of English*

4. DESCRIPTION OF TRAINING

- 1) *Lectures*
 - Principles of germplasm exploration and Collection
 - Test of Seed germinability
 - Genetic resources in the world and international cooperation
 - Management of information on genetic resources
 - Maintenance of germplasms by tissue culture, etc.
- 2) *Technical practices*
 - Seed testing
 - Plant tissue culture
 - Production of virus free sections, etc.
- 3) *Observation tour*
 - Agricultural Institutions engaged in the activities related to plant genetic resources

5. FACILITIES AND INSTITUTIONS

- 1) National Institute of Agrobiological Resources (NIAR), Ministry of Agriculture, Forestry and Fisheries
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 94

RICE CULTIVATION (ADVANCED) (稲作(専修))

1. PERIOD

February 6, 1986 to November 29, 1986 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates with the occupational experience of more than five years in the field.
- 2) Presently engaged in the research work or education in the field of rice
- 3) Between twenty seven (27) and forty (40) years of age
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Agriculture in the world, rice culture in Japan, rice breeding and seed protection, soil and fertilizer.
- 2) Observation tours
 - Agril. institutions, Experimental stns.
 - Agril. coops, extension organizations
 - Farmer's organizations

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Center, JICA

6. REMARKS

No. 95

VEGETABLE SEED PRODUCTION (野菜採種)

1. PERIOD

February 6, 1986 to November 29, 1986 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates (or their equivalents) with the occupational experience of more than three years in their specialities
- 2) Presently engaged in the vegetable seed production or varietal improvement who are to work in the said field
- 3) Between twenty seven (27) and thirty seven (37) years of age
- 4) A sufficient command of spoken and written English

4.. DESCRIPTION OF TRAINING

The course deals with the following subjects through lectures, experiments, practices and observations in study tours, employing major vegetable crops in Japan.

- 1) Seed production method of major vegetable crops
- 2) Seed technology on sorting, drying, storage, and germination of vegetable seeds
- 3) Applicable method of varietal improvement of major vegetable crops

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Center, JICA

6. REMARKS

IRRIGATION AND DRAINAGE (灌溉排水)

1. PERIOD

February 7, 1986 to November 29, 1986 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 27 and 37 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Principle of irrigation and drainage (Land improvement, meteorological measurement, hydraulic experiment, etc.)
 - Applied knowledge of irrigation and drainage (Planning, design of canals, head-work, fill-type dam, etc.)
 - Experiment (Hydraulics, concrete and soil mechanics)
- 2) Observation tours
 - National Research Institute of Agricultural Engineering, and construction sites, etc.
 - Land Improvement Projects
 - Dam Site (including underground dam)

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Center, JICA

6. REMARKS

No. 97

AGRICULTURAL LAND AND WATER RESOURCES DEVELOPMENT (農地水資源開発)

1. PERIOD

July 4, 1985 to September 7, 1985 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior engineers qualified in their respective fields, or university graduates with occupational experience of more than 10 years
- 2) Under 45 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of Japan's agriculture and land improvement project
 - Land reclamation and consolidation
 - Irrigation and Drainage System
 - Design criteria
 - Operation and maintenance facilities and water management
- 2) Observatin tours
 - Present situation of agricultural land utilization and water resources development in Japan

5. FACILITIES AND INSTITUTIONS

- 1) Agricultural Structure Improvement Bureau, Ministry of Agriculture, Forestry and Fisheries
- 2) The Japanese Institute of Irrigation & Drainage

6. REMARKS

No. 98

RICE PRODUCTION MECHANIZATION (稲作機械化)

1. PERIOD

February 6, 1986 to November 29, 1986 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 27 and 37 years of age
- 5) A sufficient command of spoken & written English

4. DESCRIPTION OF TRAINING

- 1) Lecture and practical training
 - Rice production mechanization: Effective introduction of farm machinery (inspection and selection), its utilization and systematic mechanized farming connected with rice production
 - The related subject to mechanization: Rice cultivation, land consolidation, administration of mechanization and co-operative of farm machinery in Japan
- 2) Observation tours
 - Experimental and Research Institutes and other related organs

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

No. 99

AGRICULTURAL MACHINERY MAINTENANCE AND REPAIR (農業機械整備)

1. PERIOD

June 6, 1985 to December 21, 1985 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) College graduates preferably Agricultural Engineers
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 40 years of age (Male only)
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Items relevant to maintenance and repair of agricultural machinery such as principle, structure, function, performance, method of testing, adjustment and inspection of various kinds of prime movers and agricultural machines
 - Fundamentals of mechanical engineering such as materials, machine elements, thermodynamics
 - Items related to agricultural machinery such as farm mechanization, its administrative policy in Japan, machinery utilization for rice cultivation as well as agricultural machinery production, inspection and management system
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Member plants of Japan Farm Machinery Manufacturers Association and Other plants
- 2) Osaka International Training Centre, JICA (theoretical lecture)

6. REMARKS

No. 100

FARM MACHINERY DESIGN (農業機械設計)

1. PERIOD

March 6, 1986 to October 10, 1986 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates from faculty of agricultural engineering or mechanical engineering
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 27 and 40 years of age
- 5) A sufficient command of spoken & written English

4. DESCRIPTION OF TRAINING

- 1) Lecture and Practical training
 - Design engineering: Machine design technology such as drawing & design of machine elements, its parts and simple farm machinery
 - Trial-make of simple farm machinery
 - Materials: Physical properties of metallic
 - Strength of materials, and heat treatment of metal. Physical property of plant and soils.
 - Technology in common
- 2) Observation
 - Experimental and Research Institutes and other related organs

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

No. 101

POST-HARVEST RICE PROCESSING (粃処理精米加工)

1. PERIOD

August 22, 1985 to November 25, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Senior technical administrators in the public organizations engaging in planning and promoting improvements of all post-harvesting process of rice such as paddy drying, storage, rice milling, etc.
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Food situation of Japan and Importance of rice
 - Production and export of agricultural machinery
 - Rice Control System
 - Activities of agricultural co-operatives
 - Characteristics of Japonica and Indica
- 2) Observation tours of machine making factory

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Agriculture, Forestry and Fisheries
- 2) Japan Rice Millers Association

6. REMARKS

ANIMAL INDUSTRY HUSBANDRY

No. 102

POULTRY DEVELOPMENT (養 鶏)

1. PERIOD

May 9, 1985 to September 20, 1985 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 2 years
- 3) Between 26 and 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Feeding and management for layers and broilers
 - Breeding and improvement of strains
 - Incubation
 - Brooding and rearing
 - Hygiene and diseases
 - Feed
 - Poultry facilities and equipment
 - Extension work
 - Technical consultation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Okazaki National Poultry Breeding Station, Ministry of Agriculture, Forestry and Fisheries
- 2) Nagoya International Training Centre (NITC), JICA

6. REMARKS

No. 103

ARTIFICIAL INSEMINATION FOR CATTLE (家畜人工受精)

1. PERIOD

April 4, 1985 to October 19, 1985 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Breeding of cattle
 - Adjustment of feed
 - Feed management for dairy cattle
 - Artificial insemination
 - General aspect of livestock industry
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Fukushima National Livestock Breeding Station, Ministry of Agriculture, Forestry and Fisheries

6. REMARKS

No. 104

ANIMAL HEALTH RESEARCH (家畜衛生研究)

1. PERIOD

July 18, 1985 to August 17, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Researchers with more than 5 years of experiences in this field
- 2) 35 years or more and under 45 years or so
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures on advanced techniques applicable to development of vaccine and diagnosis
- 2) Exchange of information among participating countries according to the reports submitted in which the following 4 items are described:
 - a) Hygienic condition on domestic animals
 - b) Problems on animal health
 - c) General conditions on domestic animals
 - d) Results of research work in the laboratory which applicants belong to
- 3) Observation tour

5. FACILITIES AND INSTITUTIONS

- 1) National Institute of Animal Health (NIAH), Ministry of Agriculture, Forestry and Fisheries
- 2) Tsukuba International Centre, JICA

6. REMARKS

FORESTRY

No. 105

REFORESTATION TECHNIQUES AND FOREST MANAGEMENT (森林造成技術者)

1. PERIOD

August 29, 1985 to November 28, 1985 (3.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engaged in planning work in the governmental forestry organizations
- 3) Occupational experience of more than 5 years
- 4) Under 40 years of age
- 5) Good working knowledge of English
- 6) Congenial to Japanese dishes because a part of training is given in the countryside

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Forestry planning, breeding, nursery practice, regeneration tree tending and forest conservation in Japan
 - Administration and management of the national forest in Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Forestry Agency, Ministry of Agriculture, Forestry and Fisheries

6. REMARKS

No. 106

WOOD INDUSTRIAL MACHINERY (木材工業機械)

1. PERIOD

September 26, 1985 to February 28, 1985 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Between 28 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Lumber cutting and its equipment
 - Plywood machineries
 - Woodworking machineries
 - Wood processing techniques
 - Sawmill machinery
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Industrial Research Institute, Aichi Prefecture
- 2) Nagoya International Training Centre (NITC), JICA
- 3) Industries

6. REMARKS

No. 107

FORESTRY AND FOREST PRODUCTS RESEARCH (林業林産研究)

1. PERIOD

August 22, 1985 to December 5, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Occupational experience of more than 5 years
- 3) Presently serving at forestry research organizations or universities
- 4) Under 40 years of age
- 5) Good working knowledge of English or Japanese

4. DESCRIPTION OF TRAINING

Lectures and practical training

Wood physics, wood anatomy, wood processing, wood drying, wood sawmilling, adhesives gluing & jointing, fire-retarding, wood extractives, pulp and paper, fiber and particle-board, wood carbonization.

5. FACILITIES AND INSTITUTIONS

- 1) Forestry and Forest Products Research Institute, Ministry of Agriculture, Forestry and Fisheries
- 2) Tsukuba International Centre, JICA

6. REMARKS

FISHERIES

No. 108

FISHERY COOPERATIVES (漁業協同組合)

1. PERIOD

June 27, 1985 to December 13, 1985 (6 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduate or equivalent
- 2) Fishery cooperative experience of more than 3 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of fishery cooperatives, fish marketing, fisheries finance, fishery cooperatives management, accounting of fishery cooperatives
 - Fisheries legislation, Fishery Cooperatives Law
 - Fisheries administration, Fisheries economics
 - Other essential subjects related to fishing industry
- 2) Observation tours
 - Fishery cooperative associations
 - Fishing companies
 - Agriculture cooperatives
 - Fish markets

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 109

COASTAL FISHERIES EXTENSION I (PRACTICE) (沿岸漁業普及 I (実技))

1. PERIOD

June 27, 1985 to December 13, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior high school graduates or equivalent
- 2) Fishery experience of more than 3 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practice
 - Fishing gear and methods of coastal fisheries in Japan
 - On board training by training vessels
 - Fishing practice by commercial fishing boats
 - Net handling practice
 - Model net construction
 - Engine handling practice
- 2) Observation tours
 - Fishing ports
 - Fish markets
 - Fishing operations by commercial fishing boats
 - Fish processing plants

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 110

COASTAL FISHERIES EXTENSION II (THEORY) (沿岸漁業普及Ⅱ(理論))

1. PERIOD

January 16, 1986 to June 17, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Fishery experience of more than 3 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practice
 - Fishing gear and methods of coastal fisheries in Japan
 - Designing of fishing gear
 - Relation between fish behaviour and fishing gear
 - Model fishing gear construction
 - Net forming experiment
- 2) Observation tours
 - Fishing ports
 - Fish market
 - Fisheries universities
 - Fishing operations by commercial fishing boats

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 111

GENERAL AQUACULTURE (養殖一般)

1. PERIOD

January 16, 1986 to June 17, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Aquaculture experience of more than one year
- 3) Under 35 years of age
- 4) Good working knowledge of English
- 5) Engaging in Aquaculture Education

4. DESCRIPTION OF TRAINING

- 1) Lectures and practice
 - Basic information about fisheries in Japan
 - Aquaculture techniques in general
 - Fresh water and sea water fish culture
 - Shell-fish and sea algae culture in sea water
 - Induced spawning by hormone injection on
 - Water quality analysis
 - Analysis of feed composition
- 2) Observation tours
 - National and regional fisheries research laboratories
 - Prefectural fisheries experimental stations
 - University of fisheries
 - Private fish farms

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 112

HULL AND ENGINE MAINTENANCE OF SMALL FISHING BOAT
(小型漁船の船体・機関保守)

1. PERIOD

January 16, 1986 to June 17, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Senior high school graduates or equivalent
- 2) Fishery boat or engine experience of more than 3 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practice
 - Basic information about fisheries in Japan
 - Hull maintenance
 - Diesel engine and outboard engine
 - Marine auxiliaries
 - Knowledge and handling of FRP
- 2) Observation tours
 - Shipyards
 - Fishing ports
 - Marine engine factories
 - Marine engine operation by commercial fishing boats

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 113

PRAWN PROPAGATION TECHNIQUE (エビ増養殖技術)

1. PERIOD

November 21, 1985 to August 29, 1986 (9.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 2) Under forty (40) years of age in principle
- 3) Basic knowledge of Aquaculture
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japanese language course
 - *Oceanography and marine*
 - Prawn seed cultivation
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

Ube Junior College

6. REMARKS

No. 114

MARINE FOOD PROCESSING AND TECHNOLOGY (水産食品加工)

1. PERIOD

January 9, 1986 to June 6, 1986 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japanese eating habits, Food supply in Japan, Food self-supply through technical advancement, Food packaging and storage, Food distribution and its problems, Law concerned with food, Agricultural products, Livestock products, Marine products, etc.
 - In-plant training (Meat products, Frozen food, Marine products operation and application of analytical instruments, Analysis of food)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Center, JICA
- 2) Public Research Institutions
- 3) Food Processing Factories (Food Manufacturing Plants)
- 4) Kagoshima University (Dept. of Fisheries)

6. REMARKS

MINING AND MINERALS

No. 115

GROUNDWATER RESOURCES DEVELOPMENT (地下水資源開発)

1. PERIOD

August 15, 1985 to December 14, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

I. INTRODUCTION (two weeks)

- 1) General orientation by JICA
- 2) *Country report presentation* by participants

II. LECTURE ON BASIC TOPICS (one week)

- 1) Geology of Japan
- 2) Hydrogeology
- 3) Geochemistry of groundwater
- 4) Geophysics related to groundwater

III. LECTURES, OBSERVATION AND PRACTICE

1. Groundwater Exploration (three weeks)

- 1) *Groundwater survey*
- 2) *Photogeology*
- 3) *Geophysical exploration*

2. Water Well Engineering and Evaluation (three weeks)

- 1) Drilling technique
- 2) Water well logging
- 3) Water well design
- 4) Aquifer test
- 5) Pumps

3. Utilization of Groundwater (one week)

- 1) Water quality
- 2) Microorganism
- 3) Others

4. Groundwater Management (two weeks)

- 1) Water balance
- 2) Water management
- 3) Groundwater simulation

IV. SPECIAL TOPICS (one week)

V. STUDY TOUR (three weeks)

5. FACILITIES AND INSTITUTIONS

- 1) Geological Survey of Japan, Ministry of International Trade and Industry
- 2) Tsukuba International Centre, JICA

6. REMARKS

Well drilling practice is not included in the training programme.

No. 116

OFFSHORE PROSPECTING (沿海鉱物資源探査)

1. PERIOD

May 23, 1985 to December 26, 1985 (7.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Geophysicists, geologists or engineers presently engaged in geoscience
- 3) Occupational experience of more than 3 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Geology (marine geology, petroleum geology, mineral deposits, etc.)
 - Geophysics (Seismic, gravitational, magnetic, electric and logging methods, etc.)
 - Applied mathematics, computer use
 - Laboratory and field work
 - Petroleum exploration
 - Remote sensing, etc.
- 2) Observation tours
 - To related facilities

5. FACILITIES AND INSTITUTIONS

- 1) Geological Survey of Japan, Ministry of International Trade and Industry
- 2) Tsukuba International Centre, JICA

6. REMARKS

MINING ENGINEERING (鉱山)

1. PERIOD

August 15, 1985 to November 5, 1985 (3-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent with basic knowledge of mineral mining
- 2) Qualified in their respective fields with more than three (3) years of practical experience
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
- Technology, policy and administration of mining industry in Japan
- 2) Observation tours
Visits to:
 - * Mines and Smelters
 - * A geothermal Power Plant
 - * Manufacturers of Related Equipments
 - * National Research Institute for Pollution and Resources
 - * Geological Survey of Japan

5. FACILITIES AND INSTITUTIONS

- 1) Japan Mining Industry Association (JMIA)
- 2) Institute for International Mineral Resources Development (IIMRD)

6. REMARKS

No. 118

MINE SAFETY (鉱山保安)

1. PERIOD

February 27, 1986 to May 30, 1986 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent who have basic knowledge of mine safety with occupational experience of more than 3 years
- 2) Under 35 years of age in principle
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
Outline of Mining in Japan; Administration and Mine Safety Law; Approval Test Methods of Mine Appliances; Rock Mechanics, Ventilation; Gas, Coal and Dust Explosion; Mine Fire; Gas Detections; Explosion Proof; Dust Measurement; Explosives and Blasting
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Research Institute for Pollution and Resources
- 2) Tsukuba International Centre, JICA

6. REMARKS

MINERAL PROCESSING AND METALLURGY (選鉱製練)**1. PERIOD**

July 25, 1985 to August 15, 1986 (13-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Engineers or researchers who have graduated from universities, majoring in mining and metallurgy programmes or similar subjects or those who have an equivalent academic background, with more than three years of occupational experience in the related field.
- 2) Between twenty-five (25) and thirty-five (35) years of age.
- 3) Presently engaged in the research work at universities, vocational institutes, research and development divisions in industries.
- 4) A sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

1) Group Study with Lectures

- a) Physical Chemistry of Minerals and Mineral Processing*
- b) Fundamentals in Metallurgical Thermodynamics*
- c) Fundamentals in Metallurgical Kinetics*
- d) Applied Mineralogy and Mineral Processing I* and II
- e) Ferrous Extractive Metallurgy I* and II
- f) Non-Ferrous Extractive Metallurgy I* and II
- g) Transport Phenomena and Process Analysis I* and II
 - I: Introductory course (a required subject for all participants)
 - II: Advanced course (an optional subject for participants)
- h) Japanese Language and Culture*

Advanced course covers the following subjects.

- (1) Applied Mineralogy
Physical Chemistry of Minerals, Mineral Engineering, Resource and Environment Management.
- (2) Mineral Processing
Crushing and Grinding of Ore, Particulate Technology, Physical Chemistry of Flotation
- (3) Ferrous Extractive Metallurgy
Pretreatment of Ore, Ironmaking, Steelmaking, Solidification
- (4) Non-ferrous Extractive Metallurgy
Pyrometallurgy, Hydrometallurgy, Electrometallurgy, Environmental Chemistry
- (5) Process Analysis and Simulation of Metallurgical Process
Transport Phenomena, Process Simulation, Optimum Design of Processes
- (6) Materials Science for Metallurgist
Introduction to Materials Science, Ceramics and Metal Processing.
- (7) Selected Topics in Mineral Processing and Metallurgy
Energy Resources, Data Bank System, System Engineering, Seminar.

2) Group Study with Lectures and Practice

- Instrumental Analysis (Principle and Experiments)
- X-ray Diffraction*
 - X-ray Fluorescent Analysis*
 - Atomic Absorption Spectroscopy*
 - Electron Probe Microanalysis*
 - Calorimetry (DSC, DTA) (on demand)
 - Materials Testing (on demand)
 - Computer Training (on demand)
 - Chemical Analysis (on demand)
 - Laboratory Automation (on demand)

3) Independent Study

For participants who are studying a specific advanced area in *Mineral Processing and Metallurgy* along with the faculty supervisor's consent.

*: All participants may be suggested to have the credit of this subject.

4) Observation tours

5. FACILITIES AND INSTITUTIONS

Research Institute of Mineral Dressing and Metallurgy (SENKEN), Tohoku University

6. REMARKS

Japanese language lesson is also offered in this course.

INDUSTRY

No. 120

SMALLER ENTERPRISE DEVELOPMENT (SEMINAR) (中小工業開発セミナー)

1. PERIOD

June 27, 1985 to August 18, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Senior administrative officials in development works for smaller enterprises
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 55 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Economic development and smaller enterprise
 - Smaller enterprise development measures in Japan
 - Position of smaller enterprises in the developing countries and the government measures taken for *their development*
 - Entrepreneurship development & characteristics of Japanese corporate management
 - Management consultation & business diagnosis for smaller industries
 - International & domestic trade of smaller enterprises and their marketing
 - Transfer of technology
 - Subcontracting system
 - Technology and *human resources development*
 - Local traditional industries (localized industries)
 - Smaller enterprises and economic development in developing countries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Chu-San-Ren (Central Japan Industries Association)

6. REMARKS

No. 121

INDUSTRIAL STANDARDIZATION AND QUALITY CONTROL (工業標準化)

1. PERIOD

May 16, 1985 to July 28, 1985 (2.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures, mutual discussions and seminars
 - Standardization
 - Fundamentals in industrial standardization
 - Administration of national standardization
 - Standardization at international level
 - Legal metrology & measurement standards
 - JIS marking system and other certification systems
 - Company standardization
 - Value engineering and standardization
 - Quality control
 - Outline of quality control
 - Statistical methods
 - Q.C. circle activities
- 2) Technical visits
- 3) Observation tour
- 4) Evaluation & report writing

5. FACILITIES AND INSTITUTIONS

Agency of Industrial Science and Technology, Japanese Standards Association

6. REMARKS

No. 122

MEASURES FOR SMALLER INDUSTRY (中小企業対策)

1. PERIOD

January 9, 1986 to March 31, 1986 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
- Japanese measures pertaining to promotion of small business, especially particulars of development of smaller businesses and practices in financing, grouping, structural improvement and managerial/technical guidance
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Osaka International Training Centre, JICA

8. REMARKS

No. 123

METROLOGY AND MEASUREMENT STANDARDS (計量標準)

1. PERIOD

June 13, 1985 to December 12, 1985 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Presently engaged in measurement or inspection of measuring instruments at governmental, semi-governmental or local metrology services
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Essentials of metrology and measurement standards
 - International system of units
 - Regulations related to metrology
 - Standardization related to metrology
 - Export inspection system
 - Fundamental theory of measurement
 - Maintenance of measurement standards
 - Specialized practical training
- 2) Observation tours
 - To related institutions

5. FACILITIES AND INSTITUTIONS

- 1) National Research Laboratory of Metrology (NRLM)
- 2) Japan Measuring Instruments Federation
- 3) Tsukuba International Centre, JICA

6. REMARKS

No. 124

BUSINESS FEASIBILITY STUDY AND MANAGEMENT PRACTICE

(工業開発計画実務)

1. PERIOD

April 4, 1985 to September 30, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or those who possess equivalent professional qualifications in this field. In addition, the basic knowledge to prepare financial statements of a business corporation is prerequisite.
- 2) More than three year experience in this field
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Methods & techniques of planning
- 2) Necessary functions for business feasibility examination and techniques of study in preconstruction
- 3) Techniques of project execution in construction
- 4) Operations & improvement for better performance in post-construction
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) CHU-SAN-REN (Central Japan Industries Association)

6. REMARKS

No. 125

CERTIFICATION SYSTEMS (認証検査制度)

1. PERIOD

January 9, 1986 to March 9, 1986 (2.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or the equivalent
- 2) Experience for more than 3 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction to different certification systems in Japan
 - Summary of JIS certification mark system
 - Summary of export inspection system
 - Review of basic knowledge on standardization and quality control
 - In-laboratory training
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Standard Department, Agency of Industrial Science and Technology, Ministry of International Trade and Industry
- 2) International Trade Administration Bureau, MITI
- 3) Japanese Standards Association (JSA)

6. REMARKS

No. 126

INDUSTRIAL PROPERTY SYSTEM (工業所有権制度)

1. PERIOD

August 29, 1985 to October 25, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Officers with experience as an examiner in the respective fields
- 2) University graduates or the equivalent
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Brief introduction to Industry Property Systems
 - Promotion of Inventive activities and the role of Industrial Property System
 - Industrial Property Information Services
 - Transfer of technology and licencing
 - Consultation and agential activities
 - Practical use of Industrial Property System in enterprises
 - Outline of the Japanese Patent Law and Utility Model Law, the Japanese Design Law, and the Japanese Trademark Law
- 2) Practical training
 - Examination practice (Group and Individual)
- 3) On-the-spot training
 - At Japanese Patent Office (JPO), and Japan Institute of Invention and Innovation (JII)
- 4) Case studies
 - Actual development of new products, industrial property management in large enterprises and in medium and smaller enterprises
- 5) Observation tour
 - Private Enterprises

5. FACILITIES AND INSTITUTIONS

- 1) Patent Office, Ministry of International Trade and Industry
- 2) Japan Institute of Invention and Innovation

6. REMARKS

No. 127

INDUSTRIAL PROPERTY SYSTEM (SEMINAR) (工業所有権セミナー)

1. PERIOD

November 4, 1985 to November 23, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Senior-class officials (directors of departments) in charge of decision-making for the administration of industrial property
- 2) University graduates or equivalent
- 3) Between 30 and 50 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Promotion of inventive activities and effective use of patent information
 - Actual maintenance of documents and retrieval of patent documentation in JPO
 - Industrial property information services
 - The role of patent in transfer of technology
 - Consultation and agential activities
 - The use and economic value of patents
 - The role of patent information in promotion of inventive activities
- 2) Observation
 - Patent Office
 - Japan Institute of Invention and Innovation
 - Private Enterprises

5. FACILITIES AND INSTITUTIONS

- 1) Patent Office, Ministry of International Trade and Industry
- 2) Japan Institute of Invention and Innovation

6. REMARKS

No. 128

**CONSULTANCY SERVICE FOR THE PROMOTION OF
SMALL INDUSTRIES** (中小企業振興指導者訓練)

1. PERIOD

September 26, 1985 to March 28, 1986 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) Be such personnel as assigned to business diagnostic services, management consultancy, and extension services at the organization engaged in the assistance for development and promotion of small scale industries
- 2) University graduate or those who have equivalent academic background and/or professional experience
- 3) Have at least three years of experiences
- 4) Between 30 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) System & measures for small industries promotion in Japan
- 2) Basic understanding of business management
- 3) Techniques & methods of business diagnosis
- 4) Program implementation & training
- 5) Observation tours
- 2) Central Japan Industries Association (CHU-SAN-REN)

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) CHU-SAN-REN (Central Japan Industries Association)

6. REMARKS

No. 129

CERAMIC ENGINEERING (窯業技術)

1. PERIOD

April 4, 1985 o December 27, 1985 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) More than 3 year practical experience at educational and research institute
- 3) Between 25 and 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction to ceramics
 - Ceramics in Japan
 - Body preparation
 - Glaze preparation
 - Raw materials
 - Analysis of raw materials
 - Kiln and firing
 - Quality control
- 2) Practice
 - Body preparation and Glaze preparation.
 - Measurement and experiment on the properties properties on materials and body
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Government Industrial Research Institute, Nagoya
- 3) Others

6. REMARKS

No. 130

GLASS TECHNOLOGY (ガラス工学)

1. PERIOD

January 9, 1986 to March 29, 1986 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engineers engaged in the production of glass or researchers interested in practical knowledge
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and practical training
 - Machinery and mold
 - Furnace
 - Batch handling
 - Sheet glass
 - Container glass
 - Other products
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

- 1) Government Industrial Research Institute, Osaka
- 2) Osaka International Training Centre, JICA

6. REMARKS

No. 131

PLASTICS (プラスチック)

1. PERIOD

September 19, 1985 to December 20, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Compression molding, transfer molding and injection molding of thermosets
 - Extrusion and blow molding
 - Injection molding of thermoplastics, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Osaka Municipal Technical Research Institute (OMTRI)

6. REMARKS

No. 132

REFRACTORY MANUFACTURING TECHNOLOGY (耐火物製造技術)

1. PERIOD

September 26, 1985 to March 28, 1986 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be presently engaged in refractory production or research work
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Raw materials
 - Testing of raw materials
 - Testing of one component bricks
 - Trial manufacturing of refractory bricks
 - Testing of refractory bricks
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Technical Research Laboratory of Mino Yogyo Co., Ltd.

6. REMARKS

No. 133

CERAMIC GLAZE AND DECORATION (釉・着彩技術)

1. PERIOD

April 4, 1985 to September 30, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Ceramic materials & bodies
 - Glaze preparation & its application
 - Pigment making & colouring
 - Decoration techniques (screen printing etc.)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Tajimi City Pottery Design and Technical Centre
- 3) Government Industrial Research Institute, Nagoya
- 4) Gifu Prefectural Ceramic research Institute
- 5) Ceramic Industries

6. REMARKS

TILE MANUFACTURING TECHNOLOGY (タイル製造技術)

1. PERIOD

August 1, 1985 to March 28, 1986 (8-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Body preparation
 - Forming
 - Analysis and evaluation of raw materials for the better-suited tile manufacturing
 - Kiln and firing
 - Quality control
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Government Industrial Research Institute, Nagoya
- 2) Ina Seito Co., Ltd.
- 3) Nagoya International Training Centre (NITC), JICA

6. REMARKS

No. 135

CERAMIC DEVELOPMENT (SEMINAR) (窯業開発セミナー)

1. PERIOD

February 13, 1986 to March 28, 1986 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) High ranking officials contributing to the development and promotion of the ceramic industry
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- Lectures and practical training
- Development and promotion policies
 - Technical research and development
 - Execution of the policies at the private level

5. FACILITIES AND INSTITUTIONS

- 1) Regional Bureau of International Trade and Industry, Nagoya, Ministry of International Trade and Industry
- 2) Government Industrial Research Institute, Nagoya, Agency of Industrial Science and Technology

6. REMARKS

No. 136

PETROCHEMICAL INDUSTRY FOR MIDDLE EAST COUNTRIES

(石油化学工業)

1. PERIOD

January 23, 1986 to March 8, 1986 (1.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University or college graduates
- 2) Presently engaged in responsible assignment or development planning in the field of petrochemical industry
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- Characteristics of petrochemical industry
- Products and plant technology of petrochemical industry
- Requirements for petrochemical industry substantialization
- Schemes and planning
- Petrochemical industries in Japan
- The role of Japan in the establishment of petrochemical industries in developing countries
- Technical Meeting with lectures
- Plant observations and field trips to relevant industries

5. FACILITIES AND INSTITUTIONS

- 1) Tokyo International Centre (TIC), JICA
- 2) The member companies of the Association of Petrochemical Industries in Japan

6. REMARKS

No. 137

ENZYME TECHNOLOGY (酵素工学)

1. PERIOD

April 4, 1985 to October 4, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Master's or Doctor's degree and have majored chemistry, biochemistry, agricultural chemistry, food chemistry or applied microbiology
- 2) 3 or more years of experience in fermentation technology or enzyme technology
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and experimental training
 - Cultivation of microorganisms for enzyme production
 - Purification of enzymes
 - Properties of enzyme
 - Action of enzyme
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Osaka Municipal Technical Research Institute (OMTRI)

6. REMARKS

No. 138

RESEARCH ON CHEMICAL TECHNOLOGY (化学技術研究)

1. PERIOD

August 29, 1985 to August 28, 1986 (12.0-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience as researchers of more than (3) years
- 3) Engaged in the field of chemical technology, most preferably holders of PR.D. or M.A.
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Orientation at JICA and the Laboratory
- 2) Individual Study Subjects
 - a) Quantitative analysis of gas-phase samples by infrared spectroscopy
 - b) NMR spectroscopy
Methods of measurement and analysis
 - c) Synthetic chemistry of polymers, detergents and dye-stuffs
 - d) Catalysts for oxydation in liquid phase
 - e) Oil and fat chemistry
Utilization of components of oil and fat
 - f) Photographic chemistry
Physical properties of photographic emulsions
Development technology of colour photography
 - g) Corrosion testing method for chemical equipment
 - h) Assay of metal ore
 - i) Waste water processing by revers osmosis membrane

Among item (a) to (i) of the above, one item would be selected to study by an applicant.

5. FACILITIES AND INSTITUTIONS

- 1) National Chemical Laboratory for Industry, Ministry of International Trade and Industry
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 139

FOUNDRY ENGINEERING (鋳造技術)

1. PERIOD

August 15, 1985 to March 28, 1986 (8-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Presently engaged in foundry engineering at research institutes, educational institutes or industries
- 3) Occupational experience of more than 2 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Foundry sands
 - Mould properties and sand mixtures
 - Moulding processes
 - Foundry raw materials
 - Fuels
 - Melting furnaces and melting
 - Casting design
 - Modernization of foundry shops
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Government Industrial Research Institute, Nagoya
- 3) Aichi Prefectural Industrial Research Institute
- 4) Metal Industries Institute, Mie Prefecture
- 5) Foundry Industries

6. REMARKS

No. 140

METAL FINISHING ENGINEERING (金属表面处理技术)

1. PERIOD

April 4, 1985 to September 30, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 2 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basis metals
 - Electroplating
 - Electroless plating
 - Aluminium anodising
 - Pollution control
 - Physical and chemical vapour deposition
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Industrial Research Institute, Aichi Prefecture
- 2) Nagoya Municipal Industrial Research Institute
- 3) The Plating Industrial Association of Aichi Prefecture
- 4) Nagoya International Training Centre (NITC), JICA
- 5) Industries

6. REMARKS

No. 141

METAL WORKS AND ENGINEERING (金属加工技術)

1. PERIOD

September 26, 1985 to June 30, 1986 (9.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent (mechanical engineering)
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Metallic materials and practical metallurgy
 - Heat treatment
 - Foundry
 - Welding
 - Mechanical engineering
 - Plastic forming of metals
 - Industrial management
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Government Industrial Research Institute, Nagoya
- 3) Industrial Research Institute, Aichi Prefecture
- 4) Metal Working Industries

6. REMARKS

No. 142

WELDING TECHNOLOGY (溶接技術)

1. PERIOD

April 4, 1985 to December 27, 1985 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Between 25 and 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction to classified welding processes
 - Arc Welding.
 - Welding machinery and equipment, and their application
 - Aluminum alloys welding processes
 - Welding theory, design and inspection method
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Tokai Branch, The Japan Welding Society
- 2) The Faculty of Engineering, Nagoya University
- 3) The Japan Welding Engineering Society

6. REMARKS

No. 143

ELECTRICAL STEEL MAKING (電気製鋼技術)

1. PERIOD

January 9, 1986 to June 8, 1986 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 2 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction of current situation of electrical steel making in Japan
 - Management of electrical furnaces, dissolution method, material control
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Government Industrial Research Institute, Nagoya
- 2) Daido Steel Corporation, Aichi Steel Co., Ltd.
- 3) Nagoya International Training Centre (NITC), JICA

6. REMARKS

No. 144

PROPERTIES AND TESTINGS OF STEEL PRODUCTS (鉄鋼材試験検査技術)

1. PERIOD

August 15, 1985 to November 26, 1985 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates in metallurgy, mechanics or chemical engineering
- 2) Practical experience of more than 2 years in production or fabrication of steel
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction of steel production
 - Properties of steel products
 - Fundamental properties of steel
 - Testing and inspection technics of steel products
- 2) Observation tours
 - Producers of various kinds of steel products

5. FACILITIES AND INSTITUTIONS

Nippon Steel Corporation

6. REMARKS

No. 145

HEAT TREATMENT TECHNOLOGY (熱処理技術)

1. PERIOD

January 7, 1986 to June 30, 1986 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8) /

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of over 2 years
- 3) Mechanical or metallurgical engineer
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) *Lectures and practical training*
 - Theory of metallic materials
 - Fundamental practice on heat treatment
 - *Related technology*
 - Applied technology of heat treatment
- 2) *Observation tours*

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Nagoya Municipal Industrial Research Institute

6. REMARKS

No. 146

TOOLING AND PRODUCTION FACILITY PRACTICAL ENGINEERING

(治工具生産技術)

1. PERIOD

September 26, 1985 to March 28, 1986 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 5 years
- 3) In charge of tool engineering, production management, production engineering, etc.
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic knowledge of machining
 - Process design for product manufacturing
 - Materials for making jigs and tools, and heat treatment
 - Design work management and control for tools and jigs
 - Basics for jigs and tools designing
 - Theories of tools and jigs design
 - Tool making equipment and measuring instruments
 - Practical knowledge of tools
 - Tools and factory management
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) CHU-SAN-REN (Central Japan Industries Association)
- 3) Industries

6. REMARKS

No. 147

MAINTENANCE OF CONSTRUCTION MACHINERY (建設機械整備)

1. PERIOD

May 9, 1984 to August 5, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates (mechanical engineering), or equivalent with occupational experience of more than 3 years
- 2) Presently engaged in or expected to be engaged in near future in planning and administration work in the field of construction machinery
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Development and present situation of mechanized construction work and use of construction machinery
 - Planning of mechanized construction work and use of construction machinery
 - Function, structure and performance of construction machinery
 - Maintenance, repair, inspection, troubleshooting and field construction machinery
 - Planning, layout, parts control, tool control and administration of work shop
 - Construction sites and related manufacturing firms
- 2) Practical training
 - Fundamental Practice: Engine, Clutch, Torqueconverter, Transmission, Final drive, Differential gear, Brake, Steering, Hydraulic System, Power shift transmission, Undercarriage, etc.
 - Specialized Practice: Bulldozer, Scarper, Grader, Wheel-loader, Hydraulic excavator, Crane, Compaction Machinery, Dump Trunk, etc.
- 3) Presentation of country report
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Japan Construction Mechanization Association

6. REMARKS

No. 148

MECHANICS DIESEL AUTOMOBILE VEHICLES (AUTOBUSES, TRUCKS)

(バス、トラック整備技術)

1. PERIOD

January 16, 1986 to March 28, 1986 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Qualified educational background in their respective field
- 2) Occupational experience of more than 3 years in maintenance and repair of diesel vehicles
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of French

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
- Fundamental knowledges about mechanism and function of diesel vehicles (autobuses, trucks)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Hino Motors, Ltd.

6. REMARKS

The course will be conducted in French or through the interpretation of Japanese into French.

No. 149

PLANT MAINTENANCE ENGINEERING (プラントメンテナンス)

1. PERIOD

April 11, 1985 to July 10, 1985 (3-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engaged or expected to be working on their return in this line
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Maintenance in Japan
 - Maintenance at Steel Plant, Electrical Machinery MFG Plant, Chemical Plant, Machine Assembly Plant
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nippon Steel Corporation
- 2) Sumitomo Metal Industries Ltd.
- 3) Mitsubishi Chemical Industries Ltd.
- 4) Nissan Motor Co., Ltd.
- 5) Yasukawa Electric MFG. Co., Ltd.
- 6) Kyushu Institute of Technology

6. REMARKS

TEXTILE MACHINERY INDUSTRIES (SEMINAR) (繊維機械工業セミナー)

1. PERIOD

Not Conducted in 1985

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

Currently assume the position of the high ranking governmental officials directly concerned with and being capable of contributing to the development and promotion of the textile industry in their respective countries by giving the proper guidance on the administrative and technical aspects from a high level after their return to their own countries

4. DESCRIPTION OF TRAINING

This Seminar aims at the formulation of and/or the search into the key ideas possible to direct the textile industry towards its future promotion and development through the comparative discussion of the governmental policies and measures, and the introduction and the management of the textile machinery and their related facilities with a reference to the Japan's case.

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Regional Bureau of International Trade and Industry, Nagoya
- 3) Tokai Textile Machinery Industrial Association, Nagoya
- 4) The leading textile machinery manufacturers in Tokai region
- 5) The textile mills

6. REMARKS

Conducted Every Other Year

No. 150

COTTON WEAVING ENGINEERING (縮織布技術)

1. PERIOD

April 4, 1985 to September 30, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be presently engaged in the production as the mill manager and/or weaving master in the textile mill
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Preparatory process of weaving (sizing and warping)
 - Mechanism of weaving machine
 - Loom operation and maintenance
 - Designing and analysis of different fabrics
 - Physical and chemical testing method of fabrics
 - Modern techniques of management of weaving mills, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Aichi Prefectural Textile Research Centres
- 2) Toyoda Automatic Loom Works, Ltd.
- 3) Nagoya International Training Centre (NITC), JICA

6. REMARKS

No. 151

TEXTILE TECHNOLOGY (繊維工学)

1. PERIOD

August 8, 1985 to November 7, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 35 years of age
- 5) Good working knowledge of English or Japanese

4. DESCRIPTION OF TRAINING

- 1) Lectures and Individual Studies
 - Structure and properties of fibers
 - Dying and finishing of textiles
 - Testing methods and standardization of textiles
 - Application of computer for pattern making, etc.
 - Utilization of native plant fibers
 - Development of synthetic polymers
 - Development of spinning and fiber making process
- 2) Observations
 - To related institutions

5. FACILITIES AND INSTITUTIONS

- 1) Research Institute for Polymers and Textiles, Agency of Industrial Science and Technology, Ministry of International Trade and Industry
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 152

COIN AND DECORATION MANUFACTURE
METAL ANALYSIS AND PRECIOUS METAL REFINING (貨幣勳章製造及び分析製錬)

1. PERIOD

April 4, 1985 to September 29, 1985 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) *Technical high school graduates or equivalent*
- 2) *Qualified in their respective fields*
- 3) *Under 35 years of age*
- 4) *Good working knowledge of English*

4. DESCRIPTION OF TRAINING

- 1) *Lectures and practical training*
 - *Coin manufacturing*
 - *Decoration and engraving*
 - *Metal analysis and precious metal refining*
- 2) *Observation tours*

5. FACILITIES AND INSTITUTIONS

Mint Bureau, Ministry of Finance

6. REMARKS

No. 153

INDUSTRIAL DESIGN (INTERIOR) (インダストリアルデザインーインテリア)

1. PERIOD

August 15, 1985 to October 28, 1985 (2.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) Occupational experience of more than 5 years
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Tendency of industrial design in Japan
 - Motive and process of design
 - Role of industrial design
 - Design methods, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japan Industrial Design Promotion Organization
- 2) Japan Interior Designers Association

6. REMARKS

No. 154

PACKAGING ENGINEERING (包装技術)

1. PERIOD

January, 23, 1986 to March 24, 1986 (2.5-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Experience for more than 3 years in the respective fields
- 3) Good working knowledge of English
- 4) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practical training
 - Physical distribution and packaging engineering
 - Packaging materials and containers
 - *Packaging technology and system for various products*
 - National standards
 - Testing and evaluation methods for packaging materials and packages
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japan Packaging Institute

6. REMARKS

ENERGY

No. 155

HYDRO-ELECTRIC POWER ENGINEERING (水力発電)

1. PERIOD

May 9, 1985 to July 25, 1985 (3-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Economic feasibility study of hydro-electric power development
 - Investigation, planning and geological investigation of hydro-electric power project site
 - Planning of power system
 - Design and construction of dams, stations, electric facilities and telecommunication facilities
 - Operation and maintenance of hydro-electric power plant
- 2) Observation tours
 - Various types of power stations
 - Various facilities related to Electric Power Industry
 - Manufacturers of Equipments related to Electric Power Industry

5. FACILITIES AND INSTITUTIONS

- 1) Natural Resources and Energy Agency, Ministry of International Trade and Industry
- 2) Electric Power Development Co., Ltd.
- 3) Overseas Electrical Industry Survey Institute Inc.

6. REMARKS

No. 156

THERMAL-ELECTRIC POWER ENGINEERING (火力発電)

1. PERIOD

May 9, 1985 to July 25, 1985 (3-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields (Electrical and/or mechanical)
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japanese electric power policy
 - Power system management
 - Operation and maintenance of thermal power station
 - Measures for energy saving
- 2) Observation tours
 - Various types of power stations
 - Various facilities related to Electric Power Industry
 - Manufacturers of equipments related to Electric Power Industry

5. FACILITIES AND INSTITUTIONS

- 1) Natural Resources and Energy Agency, Ministry of International Trade and Industry
- 2) Tokyo Electric Power Company, Inc.
- 3) Overseas Electrical Industry Survey Institute, Inc.

6. REMARKS

No. 157

ELECTRIC POWER MANAGEMENT (電気事業経営)

1. PERIOD

August 22, 1985 to October 18, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Between thirty (30) and fifty (50) years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of the electric power management in Japan.
- 2) Practical training at the electric power company
 - Organization, personnel management, labor management and education
 - Information system
 - Technological development
 - Electric apparatus makers related to the electric power industry
 - Electric power supply plan, electric power sources development plan
 - Power systems operation
 - Plan, construction, operation, and maintenance of power transmitting and distributing facilities
 - Customer services
- 3) Observation tours
 - Hydro, thermal and nuclear power stations
 - Heavy machinery manufactures
- 4) Discussion and confirmation on achievement

5. FACILITIES AND INSTITUTIONS

- 1) Overseas Electrical Industry Survey Institute Inc.
- 2) Chubu Electric Power Co., Ltd.
- 3) Natural Resources and Energy Agency, Ministry of International Trade and Industry

6. REMARKS

No. 158

ELECTRIC POWER DISTRIBUTION ENGINEERING (配電技術)

1. PERIOD

September 5, 1985 to November 22, 1985 (3-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Technical college graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japanese electric power policy
 - Transmission, transformation and distribution lines
 - Design, construction and maintenance of transmission lines
 - Distribution facilities and work
 - Indoor and outdoor wiring, etc.
- 2) Observation tours
 - Various types of power stations
 - Various facilities related to power distribution
 - Manufacturers of equipments related to power distribution

5. FACILITIES AND INSTITUTIONS

- 1) Overseal Electrical Industry Survey Institute Inc.
- 2) Kansai Electric Power Co., Inc.
- 3) Natural Resources and Energy Agency, Ministry of International Trade and Industry

6. REMARKS

No. 159

ELECTRIC POWER ENGINEERING FOR MIDDLE EAST COUNTRIES (中近東電力)

1. PERIOD

September 12, 1985 to November 8, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Electrical and/or mechanical engineers or civil engineers
- 2) Technical college graduates or equivalent
- 3) Practical experience of more than 5 years
- 4) Between 30 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japan's electric power industry and others
 - Basic policy for development of power sources
 - Expansion plan of the power systems
 - Power system expansion planning
 - Design, operation and maintenance of substations
 - Design, construction, operation and maintenance of transmission lines, and of distribution lines
 - Fuels for thermal power plant
 - Design of foundation for thermal power station
 - Design and construction of thermal power plant
 - Operation and maintenance of thermal power station
 - Present situation of R & D of new technology for electric power facilities
 - Management of the power systems
 - Outline of nuclear power generation
- 2) Observation tours
 - Visits to a load dispatching liaison office and to some manufacturers of power equipments

5. FACILITIES AND INSTITUTIONS

- 1) Overseas Electrical Industry Survey Institute, Inc. (O.E.I.S.I)
- 2) Tokyo Electric Power Co., Inc. (TEPCO)

6. REMARKS

GEOTHERMAL ENERGY (地熱エネルギー)

1. PERIOD

August 29, 1985 to November 18, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Young scientists or technologists who have graduated from universities, majoring in geology, geophysics, chemistry, electric engineering, mechanical engineering, mining, or similar subjects or those having an equivalent academic background to the above
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Subjects of Lectures, Seminars and Experiments

- | | |
|--|--|
| (1) Geothermal Geology | (14) Earthquake Mechanism and Geothermal Resources |
| (2) Volcanology | (15) Geothermal Survey by Remote Sensing |
| (3) Alteration Mineralogy | (16) Geothermal Measurements |
| (4) Experiments on Geothermal Geology | (17) Reservoir Physics |
| (5) Isotope Geochemistry | (18) Geothermics |
| (6) Hydrothermal Geochemistry | (19) Measurements of Thermal Conductivity of Rocks |
| (7) Experiments on Hydrothermal Geochemistry | (20) Hydraulic Fracturing Technology |
| (8) Chemistry of Scale Formation | (21) Geothermal Drilling Technology |
| (9) Heat and Thermodynamics | (22) Geothermal Power Plant Engineering |
| (10) Geothermal Hydrology | (23) Corrosion Fundamentals |
| (11) Geophysical Exploration | (24) Utilization of Geothermal Resources |
| (12) Gravity and Magnetic Surveys | (25) Special Lectures |
| (13) Magneto-telluric Method | |

2) Field Work

- Geology
- Geochemistry
- Geophysics
- Drillhole engineering
- Production engineering

3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Kyushu University
- 2) Kyushu Electric Power Company, Inc.

6. REMARKS

No. 161

NUCLEA ENGINEERING (原子力基礎実験)

1. PERIOD

January 20, 1985 to March 25, 1986 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Either graduate from colleges or universities
- 2) Under 40 years old
- 3) Working for administration of Nuclear Technology
- 4) Sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Fundamental knowledge of Atomic Energy
 - Reactor and Nuclear Fuel
 - Application of Radioisotope and Radiation
 - Radiation Protection
 - Application and Development of Atomic Energy etc.
- 2) Practice and Experiment
 - Radiation Posimetry
 - Operation of Reactor
 - Radioisotope and Radiation
 - Radiation Protection and Monitoring etc.
- 3) Obserbation trip
 - Nuclear Power Plant etc.

5. FACILITIES AND INSTITUTIONS

- 1) Radioisotope and Nuclear Engineering School
- 2) Japan Atomic Energy Research Institute

6. REMARKS

COMMERCE AND TRADE

No. 162

TRADE PROMOTION A (SEMINAR) (貿易振興セミナー(A))

1. PERIOD

May 9, 1985 to July 6, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or the equivalent
- 2) Senior officials of governmental or semi-governmental organizations in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - International economy
 - Japanese trade
 - Japanese economy and business
 - Trade promotion
- 2) Observation tour
- 3) Marketing Research

5. FACILITIES AND INSTITUTIONS

World Trade Centre of Japan (WTC)

6. REMARKS

No. 163

TRADE PROMOTION B (SEMINAR) (貿易振興セミナー(B))

1. PERIOD

September 26, 1985 to November 23, 1985 (2-months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or the equivalent
- 2) Senior officials of governmental or semi-governmental organizations in their respective field
- 3) Occupational experience of more than 5 years
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - International economy
 - Japanese trade
 - Japanese economy and business
 - Trade promotion
- 2) Observation tour
- 3) Marketing Research

5. FACILITIES AND INSTITUTIONS

World Trade Centre of Japan (WTC)

6. REMARKS

No. 164

FOREIGN TRADE PRACTICE FOR LEADERS (貿易実践指導者)

1. PERIOD

August 22, 1985 to December 10, 1985 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Leading officers in administration of foreign trade
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- Lectures and practical training
- Theory, policy and structure of trade
 - Business practice of trade transaction
 - Function and system of customs
 - Export insurance and inspection of export and import goods
 - Foreign exchange and foreign trade finance
 - Marine insurance
 - Transportation
 - Dispute and settlement
 - Communication

5. FACILITIES AND INSTITUTIONS

- 1) Kobe International Association
- 2) The Kobe Chamber of Commerce and Industries
- 3) Kobe University
- 4) Kobe Customs House, Ministry of Finance

6. REMARKS

TOURISM

No. 165

TOURISM PROMOTION (SEMINAR) (観光振興セミナー)

1. PERIOD

October 3, 1985 to December 4, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 3 years
- 3) Presently engaged in tourism promotion activities in public tourist organizations
- 4) Between twenty five (25) and thirty five (35) years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures, Discussions and observations
 - Tourism Policy and Administration
 - Tourism Industries
 - Tourism Promotion Activities
 - Reception Services for Foreign Tourists
 - Tourism Manpower Development

- 2) Presentation and Discussion on Tourism Promotional Activities of the Participating Countries
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Tourism Department, Ministry of Transport
- 2) Japan National Tourist Organization

6. REMARKS

HUMAN RESOURCES

No. 166

SUPERVISORY TRAINING SEMINAR (監督者訓練セミナー)

1. PERIOD

May 8, 1985 to July 4, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Concerned with planning and conducting of supervisory training
- 3) Between 30 and 50 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction to administration system, industry and labour situation in Japan
 - Introduction to supervisory training in Japan (Methods of supervisory training, foreman training, middle management training)
 - Presentation of country report and discussion on the problems of supervisory training in participating countries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Human Resources Development Bureau, Ministry of Labour

6. REMARKS

No. 167

VOCATIONAL TRAINING (SEMINAR) (職業訓練セミナー〔I〕)

1. PERIOD

August 22, 1985 to October 18, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Engaged in management of vocational training centre or in vocational training administration at the ministerial level
- 2) Between 30 and 45 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of vocational training system
 - Training standards and curriculum
 - Training materials
 - Trade skill test system
 - Vocational training in enterprise
 - Management of vocational training centre
- 2) Discussion on the problems of vocational training in the participating countries
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Vocational Training Bureau, Ministry of Labour

6. REMARKS

No. 168-1

VOCATIONAL TRAINING INSTRUCTORS
(MACHINERY TRADE) (職業訓練指導員(建築))

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Strength of materials
 - Metals and metal technology
 - Machine tools
 - Mechanical processing
 - Measuring and testing
 - Introduction of Servo System
 - Machine tool operation
 - Nontraditional mechanical processing practice
 - Mechanical Engineering experiments
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-2

VOCATIONAL TRAINING INSTRUCTORS
(SHEET METAL WORKING AND WELDING TRADE) (職業訓練指導員〔板金溶接〕)

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Gas welding and cutting
 - Manual arc welding
 - Automatic and semiautomatic welding
 - Welding design, mechanics of welding
 - Welding procedures
 - Stress measurement
 - Experiments on welding
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-3

VOCATIONAL TRAINING INSTRUCTORS
(ELECTRONIC TRADE) (職業訓練指導員(電子))

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Electronic components
 - Automatic control
 - High frequency measurements
 - TV engineering
 - Computers
 - Radio wave propagation and antenna engineering
 - Information and telecommunications
 - Electronic circuits; digital and analog
 - Electronic circuits
 - Transistor radio
 - TV receiver
 - Computer
- 2) Observation

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-4

VOCATIONAL TRAINING INSTRUCTORS
(ELECTRICAL TRADE) (職業訓練指導員(電氣))

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Electrical wiring construction
 - Illumination engineering
 - Design of wiring works
 - Power electronics
 - Theories of electrical machinery
 - Design of electrical machinery
 - Electrical power engineering
 - General concept of automatic control
 - Electrical wiring practice
 - Practice of sequence control
 - Electrical machinery practice
 - Electrical measurement
 - Power electronics
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-5

VOCATIONAL TRAINING INSTRUCTORS
(WOOD WORKING TRADE) (職業訓練指導員〔木材加工〕)

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Design section
 - Furniture design process
 - Construction of furniture
 - System of coloring
 - Basic design, drafting and drawing
 - Material section
 - Wood basis materials
 - Gluing and plywood
 - Material testing
 - System in production section
 - Mechanical processing
 - Hand processing
 - Painting techniques
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-6

VOCATIONAL TRAINING INSTRUCTORS
(AUTOMOTIVE TRADE) (職業訓練指導員〔運輸装置〕)

1. PERIOD

April 18, 1985 to March 20, 1986.(11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Internal combustion engines
 - Automobile engineering I
 - Automobile engineering II
 - Automobile air-conditioning
 - Automobile mechanism I
 - Automobile mechanism II
 - Repair and performance test of automobiles
 - Repair and performance test of engines
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 168-7

VOCATIONAL TRAINING INSTRUCTORS
(ARCHITECTURE) (職業訓練指導員〔建築〕)

1. PERIOD

April 18, 1985 to March 20, 1986 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Presently working, as a vocational teacher or instructor in the trade
- 2) Technical knowledge equivalent to college or university level
- 3) Occupational experience of more than three years
- 4) Between 25 and 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Architectural design
 - Structure and mechanics
 - Material and practice
 - Material testing
 - Experiments on building construction
 - Practice of building construction
 - Design and drawing
 - Training at building site or, architectural design firm, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Institute of Vocational Training

6. REMARKS

No. 169

HIGHLY SKILLED MACHINIST (上級技能者訓練)

1. PERIOD

April 4, 1985 to March 17, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) High school, technical or trade school graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 30 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Mechanical engineering
 - Mechanical processing
 - Production engineering
 - Measurement
 - Drawing
 - Supervisory training
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Higashi-Yodogawa Advanced Vocational Training Centre, Osaka Prefectural Government
- 2) Osaka International Training Centre, JICA

6. REMARKS

No. 170

VOCATIONAL TRAINING ADMINISTRATION (SEMINAR) (職業訓練セミナー〔Ⅱ〕)

1. PERIOD

February 13, 1986 to March 26, 1986 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Presently engaged in the Vocational Training Administration as senior-class official next to the highest official
- 2) Between 30 and 45 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of Present Situation of Industry and Labour
 - Vocational Training Administration System
 - Vocational Training System in Enterprises
 - Trade Skill Test System
 - Vocational Education Policy
 - Employment Policy
- 2) Observation
 - Facilities and institutions of Vocational Training
 - Small and intermediate enterprises and typical Japanese industries
- 3) Country report presentation, Comparative study and discussion

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Human Resources Development Bureau, Ministry of Labour

6. REMARKS

No. 171

DIE AND MOLD MAKING TECHNOLOGY (金型工作技術)

1. PERIOD

April 4, 1985 to March 17, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Technical high school graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture
 - Die and mold design and drawing
 - Die and mold making theory
 - Plastic Material and molding process
 - Mechanical measurement
- 2) Practice
 - Basic practice (including cutting theory)
 - Applied practice (die and mold making)
- 3) Observation
 - Visit and observation to related factories
 - Study tour

5. FACILITIES AND INSTITUTIONS

- 1) Kyoto Skill Development Centre, Employment Promotion Projects Corporation
- 2) Other related private institutions
- 3) Osaka International Training Centre, JICA

6. REMARKS

As Japanese language is used in the practical work, 300 hours are allocated for the intensive Japanese language course.

No. 172

AUDIO VISUAL TECHNOLOGY (General) (視聽覚技術一般)

1. PERIOD

January 30, 1986 to July 31, 1986 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent and presently being engaged directly or indirectly in producing of AV media or being expected to take part in this job in the near future,
- 2) Expected to get a leading position in this field in future,
- 3) Under thirty (30) years of age,
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Production, Utilization and evaluation method using Audio Visual Media (Photograph, Slide, 16mm, OHP, Printing, Video, etc.)
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Center (OIC), JICA

6. REMARKS

No. 173

AUDIO VISUAL TECHNOLOGY (視聽覺技術專修)
(for Agriculture and Nurcing Training)

1. PERIOD

August 29, 1985 to February 28, 1986 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent and presently being engaged directly or indirectly in producing of AV media in agriculture and nurcing training or being expected to take part in this job in the near future,
- 2) Expected to get a leading position in this field in future,
- 3) Under thirty (35) years of age,
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Basic AV Technology
 - Theory
 - Practice
- 2) AV Media Production
 - Teaching Materials
 - Image
 - Audio
- 3) Others
 - General Orientation
 - Japanese Language
 - Study Tour
 - Finalization

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

SCIENCE AND CULTURE

No. 174

REMOTE SENSING TECHNOLOGY (リモート・センシング)

1. PERIOD

April 4, 1985 to June 8, 1985 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- University graduates having fundamental knowledge on remote sensing technology and computer
- Researchers in remote sensing application fields, such as country planning, agriculture, forest management and mapping
- Preferably under forty-five (45) years of age
- Having a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Remote Sensing Activities in Japan
 - Sensors & Platform
 - Image Enhancement
 - Japanese Landsat Ground Station
 - Image Procession System
 - Automated Classification
 - Microwave Imaging
 - Application to Agriculture
 - 3D Representation & Measurement
 - Geographic Information
 - Nation Wide Geothermal Resources Survey Using Remote Sensing
 - Analog Processing for Remote Sensing
 - Project Management
 - Data Processing of Meteorological Satellite
 - Geometric Correction Theory & Technology
 - Digital Analysis IMAGE-100 & M-DAS 210
- 2) Ground Truth Investigation
- 3) Practical Training and Discussion
- 4) Report Making
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

Remote Sensing Technology Centre of Japan (RESTEC)

6. REMARKS

No. 175

**MEDICAL AND BIOLOGICAL APPLICATION OF RADIATION AND
RADIOISOTOPES (アイソトープ放射線の医学・生物学利用)**

1. PERIOD

August 29, 1985 to October 14, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Scientists and/or technicians who have experience in the works on environmental radiation or radioactivity for five years and over,
- 2) Have been actively engaged in the concerned fields and to be able to continue the works to put their obtained techniques or knowledges to the practical use after the course,
- 3) Good working knowlege of English

4. DESCRIPTION OF TRAINING

- 1) Lectures on the fundamental knowledges and technologies about environmental radiation and radioactivity
- 2) Lectures with demonstration
– Liquid scinfillation, whole-body counting etc.
- 3) Lectures with demonstration
– Sampling methodologies, Alpha-spectrometry etc.
- 4) Practice
– Nuclear physics, Radiochemistry, Radioecology Nuclear Technology for Medicine, Radiation Protection etc.
- 5) Observation trips

5. FACILITIES AND INSTITUTIONS

National Institute of Radiological Sciences

6. REMARKS

MEDICAL TREATMENT

TUBERCULOSIS CONTROL (結核対策)

1. PERIOD

June 6, 1985 to October 14, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) Physicians who are engaged in national tuberculosis control programme, preferably having or to have a leading role in the programme, excluding those who are engaged in pure clinical work
- 2) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Statistics
 - Epidemiology
 - General concept of tuberculosis
 - Preventive measures in the tuberculosis control
 - Diagnostic measures in the tuberculosis control
 - Curative measures in the tuberculosis control
 - Tuberculosis control programme
 - WHO and its role in the tuberculosis control and research
 - Role of voluntary organizations and activities in the tuberculosis control programme
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association

6. REMARKS

No. 177

CLINICAL ONCOLOGY (がん対策)

1. PERIOD

August 15, 1985 to December 16, 1985 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Licenced physicians with occupational experience of more than 2 years in diagnosis and treatment of cancer
- 2) Under 35 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of cancer control in Japan
 - Hospital cancer registry
 - Epidemiology
 - Anatomical and clinical pathology
 - X-ray diagnosis of cancer
 - Endoscopic diagnosis
 - Radiotherapy
 - Chemotherapy
 - Surgical operation and anesthesia
 - Radioisotope
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

National Cancer Center

6. REMARKS

No. 178

MICROBIAL DISEASES STUDY (微生物病研究)

1. PERIOD

April 4, 1985 to March 17, 1986 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Researchers or teachers in microbiology or public health with a prospect of promotion to leading staffs after completion of this course
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Parasitology
 - Virology
 - Pathology
 - Bacteriology and Serology
 - Other related subjects
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Research Institute for Microbial Diseases, Osaka University

6. REMARKS

No. 179

**EARLY GASTRIC CANCER DETECTION AND RELATED
GASTROINTESTINAL TRACT DISEASES (早期胃癌診断)**

1. PERIOD

January 9, 1986 to March 8, 1986 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Graduates of a medical college or the medical department of a university
- 2) Practically experienced for more than 7 years, majoring in the diagnosis cancer, gastritis, ulcer or polyp of stomach and its adjacent region in the field of X-ray, endoscopy, biopsy, pathology or surgery
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
– Various subjects involved in this field
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Medical Association for Early Gastric Cancer Detection

6. REMARKS

No. 180

MEDICAL RADIOGRAPHY (医療放射線技術)

1. PERIOD

December 5, 1985 to June 28, 1986 (7.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Senior high school graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 2 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - X-ray physics and X-ray engineering
 - Photographic chemistry
 - Radiation measurement
 - Radiation protection
 - Computer
 - Radiography, its theory and apparatus
 - Radiographic techniques, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) College of Biomedical Technology, Osaka University
- 2) Osaka University Hospital

6. REMARKS

No. 181

TUBERCULOSIS CONTROL (ADVANCED) (結核対策 [上級])

1. PERIOD

April 30, 1985 to June 8, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Medical officers who are or are planned to be, in charge of tuberculosis control programme of a certain administrative level
- 2) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures, seminars, group discussions and workshops:
 - Recent advances in TB control
 - Progress and problems in the participants' TB programmes
 - Simulation of TB epidemiology
 - Evaluation of TB programmes
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association (JATA)

6. REMARKS

No. 182

LABORATORY WORKS FOR TUBERCULOSIS CONTROL (結核対策細菌技術指導者)

1. PERIOD

September 26, 1985 to February 17, 1986 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Either one of the following three items
 - a) Qualified technicians experienced over two years of laboratory works in bacteriology
 - b) Doctors with over one year of experience in laboratory works in bacteriology
 - c) Senior technicians with over five years of experience in laboratory works in tuberculosis bacteriology
- 2) Engaged in the training of health personnel in laboratory works for tuberculosis control, or those who will be engaged in that after returning from the training course
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Tuberculosis control programme
 - Role of laboratory works in tuberculosis control programme
 - Accuracy control of laboratory examinations
 - Laboratory data control
 - Present status and problems in the laboratory works in tuberculosis control programmes of participants' countries
 - Essential experiences as a leading bacteriologist on laboratory techniques and methods for tuberculosis control
 - Maintenance and manipulation of microscope and other laboratory equipments
 - Principles of planning and establishment of bacteriological laboratories at various conditions
 - Principles of training method of laboratory techniques
 - Modern techniques useful for bacteriological laboratories for tuberculosis control
 - Visits to laboratories and institutions
 - Organization of laboratory services
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association (JATA)

6. REMARKS

Japanese Language Course is arranged for three weeks.

No. 183

NATIONAL HEALTH ADMINISTRATION (SEMINAR) (衛生行政セミナー)

1. PERIOD

April 1, 1985 to April 30, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Medically qualified directors of top ranking administrators of the national government taking charge of health administration
- 2) In a position to participate in planning and deciding national health administration policy
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - National Health Administration
 - Health Care and Medical System
 - Communicable Disease Control
 - Nutrition and Health Promotion
 - Community Health
 - Maternal & Child Health
 - School Health
 - Chronic Disease Control
 - Mental Health
 - Pharmaceutical Affairs
 - Social Security
 - Senile Health
 - Environmental Health
 - Health Economics
- 2) Observation tours
 - Welfare study in local community

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre
- 2) Ministry of Health and Welfare
- 3) International Medical Foundation of Japan

6. REMARKS

No. 184

IMPORT AND EXPORT FOOD INSPECTION (輸出入食品検査技術)

1. PERIOD

September 12, 1985 to December 10, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years in the field of import and export food inspection
- 2) Under forty (40) years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Discussion on Country Report, Programme Orientation, Evaluation Meeting and Closing Ceremony, etc.
- 2) Lectures
 - (1) Present situation of import and export food
 - (2) Food Sanitation Law
 - (3) Inspection system for import and export food
 - (4) Inspection system in domestic market
 - (5) Rejected cases of import and export food
 - (6) Food ingredient and its testing method
- 3) Practice
Chemical and bacteriological testing of import and export foods mentioned below by official method
 - (1) Marine products
 - (2) Canned food
 - (3) Confectionary
 - (4) Vegetables
 - (5) Packaging material
 - (6) Others
- 4) Observation of private and public facilities related to food inspection in and around Kobe
- 5) Study Tours

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Centre (HIC), JICA
- 2) National Institute of Hygienic Sciences (Tokyo & Osaka), Ministry of Health and Welfare
- 3) Food Inspection Organizations, Japan Edible Oil Inspection Corporation and others

6. REMARKS

No. 185

COUNTERMEASURES AGAINST RENAL FAILURE (腎不全対策)

1. PERIOD

September 19, 1985 to November 4, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates who hold the degree of medical doctor or equivalent
- 2) Present engagement in the field of nephrology
- 3) A sufficient command of spoken and written English
- 4) Not studied a similar subject abroad before
- 5) Under thirty five (35) years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures, seminars and practice
 - Basic nephrology
 - Hemodialysis
 - Transplantation
- 2) Study tours

5. FACILITIES AND INSTITUTIONS

- 1) Nihon University School of Medicine, Department of Pathology
- 2) Tokyo Women's Medical College
- 3) Jikeikai Medical School
- 4) The Foundation of Kidney, Japan

6. REMARKS

No. 186

PARASITE CONTROL ADMINISTRATION FOR SENIOR OFFICERS (SEMINAR)

(寄生虫予防指導者セミナー)

1. PERIOD

January 23, 1986 to February 15, 1986 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Senior Level Administrators or Experts in Government or Private Sector in Charge of Parasite Control
- 2) Medical or Other Related Professions
- 3) Under 55 years of age
- 4) Working Knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Presentation and Discussion
 - National Parasite Control Programme in Japan
 - Parasite Control Activities by Voluntary Organization
- 2) Country Presentation and Discussion
- 3) Presentation on the Epidemiological Aspect of Parasite Control
- 4) Demonstration of the Examination Method for Mass Examination and Treatment
- 5) Field Trip

5. FACILITIES AND INSTITUTIONS

Japan Association of Parasite Control

6. REMARKS

NURSING ADMINISTRATION (看護管理)

1. PERIOD

Not Conducted in 1985

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Completed Advanced Nursing Study Course for Southeast Asian Nurses from 1974 to 1981 or Training Course in Advanced Nursing from 1976 to 1981, or equivalent
- 2) Presently engaged in nursing administration or expected to engage in future
- 3) A sufficient Command of spoken and written English and Japanese

4. DESCRIPTION OF TRAINING

- 1) Japanese Language
- 2) Lectures and practical training in Nursing Administration
- 3) Study Tours

5. FACILITIES AND INSTITUTIONS

The International Nursing Foundation of Japan (INFJ)

6. REMARKS

Conducted Every Other Year

No. 187

CARDIOVASCULAR DISEASES (循環器病対策)

1. PERIOD

September 5, 1985 to December 16, 1985 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Licenced physicians authorized by their governments
- 2) Under 35 years of age
- 3) Occupational experience of more than 2 years in diagnosis and treatment of cardiovascular diseases
- 4) Engaged in the same field after return to their countries
- 5) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of control of cardiovascular and related diseases
 - Progress in examination of cardiovascular system
 - Diagnosis and treatment of cardiovascular disease
 - Arteriosclerosis: risk factors and prevention
 - Respiratory physiology and pulmonary circulation including gas exchange mechanism in the lung
 - Diagnosis and treatment of hypertension and renal disease, etc.
- 2) Exercises on Diagnosis and treatment of Cardiovascular and Cerebrovascular Diseases
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

National Cardiovascular Centre

6. REMARKS

No. 188

GASTROINTESTINAL PATHOLOGY (消化管病理学)

1. PERIOD

August 22, 1985 to November 15, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Pathologist
- 2) University graduate
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

This course consists of

- | | |
|-------------------------|---------|
| (1) General Orientation | 1 week |
| (2) Group Training | 5 weeks |
| (3) Individual Training | 5 weeks |
| (4) Observation Tour | 1 week |
| (5) Report Making | 1 week |

The following subject will be studied through conferences, slide seminars, practices and observation tour;

- (1) Pathology of the gastric diseases and biopsy diagnosis
- (2) Pathology of the esophagus diseases and biopsy diagnosis
- (3) Pathology of the large bowel diseases and biopsy diagnosis
- (4) Pathology of the duodenum diseases and biopsy diagnosis

5. FACILITIES AND INSTITUTIONS

- 1) University of Tsukuba
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 189

PUBLIC HEALTH TECHNOLOGIST (公衆衛生技術者)

1. PERIOD

June 27, 1985 to March 31, 1986 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than three years
- 2) Presently engaged in research work in the field of public health
- 3) Under forty (40) years of age
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) General Orientation
- 2) Intensive Japanese Language
- 3) Group Training
 - Programme Orientation
 - General Introduction of Okinawa
- 4) Individual Training Programme
 - Environmental Pollution
 - Food Hygiene
 - Infectious Diseases
 - Medical Entomology and Parasitology
 - Venomous Snake Control
 - (1) Snake Venom and Antivenom
 - (2) Eradication of Venomous Snake

5. FACILITIES AND INSTITUTIONS

Okinawa Prefectural Institute of Public Health

6. REMARKS

No. 190

OCCUPATIONAL HEALTH (産業医学)

1. PERIOD

September 5, 1985 to December 13, 1985 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Physicians or university graduates with more than three years professional or academic experience
- 2) Presently engaged or expected to be working on their return in this line
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) **Lectures**
 - The general principles of occupational health
 - The principles and methods of occupational epidemiology
 - Evaluation and control of work environment
 - Evaluation and management of work
 - Health care systems for workers
 - Occupational diseases
 - Occupational health in agriculture
- 2) Country Report Presentation
- 3) **Group Seminars**
 - Participants will be divided into three groups according to their interests in the field of occupational health.
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) University of Occupational and Environmental Health
- 2) Keihai Rosai Hospital

6. REMARKS

No. 191

**FAMILY PLANNING ADMINISTRATION FOR
SENIOR OFFICERS (SEMINAR) (家族計画指導者セミナー)**

1. PERIOD

September 19, 1985 to October 14, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) Directors or high-ranking officials responsible for family planning programmes of the governmental organizations, or equivalent in voluntary organizations
- 3) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Country Reports
 - a) Oral presentation of constraints on family planning administration
 - b) Paper presentation of general situation of national family planning programmes described with geographic, demographic and administrative and organizational informations
- 2) Topic discussion
 - Strategies relating to:
 - Recruitment and training of personnel
 - Information, education and communication
 - Community-based family planning programmes
 - International cooperation
- 3) Field study

5. FACILITIES AND INSTITUTIONS

Japan Organization for International Cooperation in Family Planning, Inc. (JOICFP)

6. REMARKS

No. 192

COMMUNITY-BASED FAMILY PLANNING STRATEGY (SEMINAR)

(家族計画組織活動セミナー)

1. PERIOD

June 27, 1985 to August 2, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Officers who are directly involved and responsible for community-based family planning programmes including Information, Education and Communication (IEC) activities of government or voluntary organizations at the central or provincial level.
- 2) Between 25 and 50 years of age
- 3) With sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Presentation and discussions
 - Mother and Child Health / family planning
 - IEC strategies
- 2) Field study

5. FACILITIES AND INSTITUTIONS

Japanese Organization for International Cooperation in Family Planning, Inc. (JOICFP)

6. REMARKS

No. 193

MEDICAL AND HEALTH ASPECTS IN FAMILY PLANNING (SEMINAR)

(家族計画医学保健セミナー)

1. PERIOD

April 4, 1985 to May 3, 1985 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Medical, paramedical or related professionals in charge of health and biological aspects in family planning of governments or voluntary organizations at central or provincial level
- 2) A sufficient command of spoken and written English
- 3) Between 25 and 50 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Family planning in Japan
 - Maternal and child health and family planning in Japan
 - Main theme:
 - Family planning and hospital
 - Family planning and health centre
 - Family planning and maternal and child health centre
 - Medical aspects
 - condom and other traditional methods
 - oral pill
 - IUDs, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japanese Organization for International Cooperation in Family Planning, Inc. (JOICFP)

6. REMARKS

WELFARE

No. 194

MENTAL RETARDATION (精神薄弱福祉)

1. PERIOD

August 22, 1985 to March 4, 1986 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Occupational experience of more than 5 years
- 2) Under 50 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practical training
– Various subjects involved in this field
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japan League for the Mentally Retarded (JLMR)

6. REMARKS

Japanese Language Course will be added from this year.

No. 195

**PUBLIC ADMINISTRATION OFFICERS
ON WOMEN'S PROBLEMS (SEMINAR)** (婦人関係行政セミナー)

1. PERIOD

October 10, 1985 to November 24, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Female
- 2) University graduates or equivalent
- 3) Presently engaged in public administration in women's problems with priority given to working women's problems at the governmental organization
- 4) Occupational experience of more than 5 years
- 5) Between 25 and 40 years of age
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
– Public administration on women's problems in Japan
- 2) Country Report Discussions
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Women's and Young Workers' Bureau, Ministry of Labour
- 2) Tokyo International Centre, JICA

6. REMARKS

No. 196

INDUSTRIAL SAFETY AND HEALTH (SEMINAR) (労働安全衛生行政セミナー)

1. PERIOD

September 26, 1985 to November 8, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Role of governmental and non-governmental organizations in industrial safety and health
 - Methods of accident investigation and procedures of cause analysis and cost calculation

This seminar has two concentrations; the safety-oriented course and the health-oriented course. Nominees should indicate to which concentration he or she wants to apply.

- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Labour Standards Bureau, Ministry of Labour
- 2) Tokyo International Centre, JICA

6. REMARKS

No. 197

INDUSTRIAL RELATIONS (SEMINAR) (劳使関係行政セミナー)

1. PERIOD

October 24, 1985 to December 11, 1985 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) A middle class official in charge of industrial relations administration in the governmental organization
- 2) Under forty-five (45) years of age in principle
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction to labour administration
 - Function of labour organizations
 - Labour laws
 - History and present situation of industrial relations
 - Labour economics
- 2) Observation tours
 - Administrative body for industrial relations
 - Industrial relations at enterprise level
- 3) Country report presentation, comparative study and comprehensive discussion

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Center, JICA
- 2) Labour Policy Bureau, Ministry of Labour
- 3) Japan Institute of Labour

6. REMARKS

No. 198

LABOUR STATISTICS (SEMINAR) (労働統計セミナー)

1. PERIOD

July 4, 1985 to August 17, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently engaged in labour statistics administration or expected to work in this field in future
- 2) College or university graduates or equivalent
- 3) Between 25 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures, Discussions & Observations
 - Orientation by the Ministry of Labour
 - Outline of Labour Administration
 - Function of Statistics in Japan
 - System of Statistics in Japan
 - Population Statistics
 - Labour Force Statistics
 - Employment & Unemployment Statistics
 - Wage Statistics
 - Hours of Work Statistics
 - Industrial Relations Statistics
 - Labour Production
 - Industrial Accidents Statistics
 - Computers & Statistics
 - Observations of Statistical Institutions & the Related Organizations, etc.
- 2) Country Report
 - Exchange of information and discussion on the problems of labour statistics in participating countries
- 3) Study Tour

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Industry and Labour Research Division, Policy Planning and Research Department, Ministry of Labour

6. REMARKS

No. 199

EMPLOYMENT PROMOTION (SEMINAR) (雇用開発セミナー)

1. PERIOD

September 5, 1985 to October 18, 1985 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently engaged in policy-drafting in employment promotion administration in the governmental bodies
- 2) Over 30 years and under 45 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Present situation and recent problems in the field of Employment Promotion in Japan
 - Administration and system in the field of countermeasures against Unemployment and Man Power Development in Japan
 - Countermeasures to workers' welfare in Japan
 - Observation of various public institutions and organizations
- 2) Country report discussions
- 3) Observation trip

5. FACILITIES AND INSTITUTIONS

- 1) Employment Security Bureau, Ministry of Labour
- 2) Tokyo International Centre, JICA

6. REMARKS

JICA