

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

1983 Japanese Fiscal Year (April, 1983 to March, 1984)

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

國際協力事業團		
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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 1983.

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 8, 1983 to October 22, 1983 (1.5-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) Good working knowledge of 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 22, 1983 to March 31, 1984 (5.5-month)

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
 - Development economics
 - Development planning
 - Basic theory and techniques of project planning
 - Agricultural development and its project planning
 - Public utility of project formulation and evaluation
 - Planning and evaluation of transportation projects
 - Development strategies of international organization
 - Economic development of Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The International Development Centre of Japan (IDCI)

6. REMARKS

No. 3

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

1. PERIOD

June 2, 1983 to August 19, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates and academic background in economic, 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 Center, JICA
- 2) The 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

September 15, 1983 to October 22, 1983 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) Officers directly responsible for narcotic control
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Study on investigative techniques
 - Identification of drugs
 - Drug control in Japan
- 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 7, 1983 to July 11, 1983 (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 7, 1983 to June 28, 1983 (3-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 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) Observations 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 1, 1983 to November 25, 1983 (3-month)

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

No. 8

PREVENTION OF OFFENCES AND TREATMENT OF OFFENDERS (SENIOR SEMINAR)

(犯罪防止〔上級〕)

1. PERIOD

February 2, 1984 to March 19, 1984 (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 (刑事司法行政)

1. PERIOD

September 1, 1983 to December 5, 1983 (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

June 9, 1983 to August 9, 1983 (2-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

May 20, 1983 to June 17, 1983 (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 COMPUTERS SYSTEMS) (SEMINAR)

(政府会計検査セミナー)

1. PERIOD

July 14, 1983 to August 13, 1983 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Elementary knowledge of computers
- 2) Middle level executive presently working for the Supreme Audit Institutions
- 3) Auditing experience of more than five years
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Computerization and Audit
 - Introduction to computer (Hardware & Software)
 - Economy and efficiency audit of computer systems
 - Audit of computerized accounting systems
 - Outline of Government accounting data communication system
- 2) Programming exercise
- 3) Observation tours

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 26, 1983 to October 15, 1983 (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
- This year's themes
 - a) The present situation and problems of a self-assessment system or an official assessment system
 - b) Measures taken by tax administrators to promote efficiency of tax administration

5. FACILITIES AND INSTITUTIONS

National Tax Administration, Ministry of Finance

6. REMARKS

No. 14

CUSTOMS TECHNIQUE (税関行政)

1. PERIOD

April 1, 1983 to May 30, 1983 (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 25, 1983 to December 9, 1983 (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) (借款手續セミナー)

1. PERIOD

October 13, 1983 to November 6, 1983 (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 tours

5. FACILITIES AND INSTITUTIONS

The Overseas Economic Cooperation Fund

6. REMARKS

No. 17

ENVIRONMENTAL ADMINISTRATION (環境行政)

1. PERIOD

February 16, 1984 to March 25, 1984 (1.5-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 15, 1983 to October 29, 1983 (1.5-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

STATISTICS I (GENERAL) (統計 I (総合))

1. PERIOD

October 13, 1983 to March 28, 1984 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty (30)

3. QUALIFICATIONS

- 1) University graduates or equivalent with the first-graded knowledge of economics, mathematics (statistics) and sociology
- 2) Those who hold, or are capable of assuming, positions of responsibility in government statistical offices
- 3) Preferably 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) Administrative Management Agency

6. REMARKS

No. 20

STATISTICS II (ADP) (統計 II (ADP))

1. PERIOD

January 5, 1984 to March 28, 1984 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent with the first-graded knowledge of economics, mathematics (statistics) and sociology
- 2) Those who hold, or are capable of assuming, positions of responsibility in government statistical offices
- 3) Preferably between 25 and 32 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) Administrative Management Agency

6. REMARKS

PUBLIC UTILITY WORKS

No. 21

WATER WORKS ENGINEERING (上水道施設)

1. PERIOD

June 16, 1983 to September 16, 1983 (3-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. 22

SEWAGE WORKS ENGINEERING (下水道技術)

1. PERIOD

September 8, 1983 to December 12, 1983 (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
 - Planning, design, construction, maintenance of sewage system
 - Sewage treatment plant
 - Manufactures of sewage treatment plant
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 23

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

1. PERIOD

May 26, 1983 to August 1, 1983 (2-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. 24

AIDS TO NAVIGATION (航路標識)

1. PERIOD

August 25, 1983 to October 29, 1983 (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 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 Wan Traffic Advisory Service Centre
 - 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. 25

RAILWAY ROLLING STOCK ENGINEERING (鉄道車両)

1. PERIOD

July 14, 1983 to October 6, 1983 (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
 - Railway and rolling stock in Japan
 - Planning and administration of rolling stock
 - Design and specification of rolling stock
 - Rolling stock manufacturing engineering
 - Procurement and inspection of rolling stock
 - Management of materials for rolling stock
 - Other related matters
- 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. 26

RAILWAY SIGNAL ENGINEERING (鉄道信号)

1. PERIOD

January 12, 1984 to April 28, 1984 (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. 27

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

1. PERIOD

May 12, 1983 to August 15, 1983 (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. 28

RAILWAY ELECTRIFICATION (鉄道電化)

1. PERIOD

October 6, 1983 to December 9, 1983 (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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 29

PORTS AND HARBOURS (SEMINAR) (港湾セミナー)

1. PERIOD

October 6, 1983 to December 4, 1983 (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. 30

PORT AND HARBOUR ENGINEERING (港湾工学)

1. PERIOD

May 5, 1983 to September 13, 1983 (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. 31

SHIPPING BUSINESS (海運経営実務)

1. PERIOD

September 8, 1983 to November 10, 1983 (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. 32

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

1. PERIOD

October 6, 1983 to November 18, 1983 (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. 33

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

1. PERIOD

September 1, 1983 to November 2, 1983 (2-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. 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. 34-1

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

1. PERIOD

June 30, 1983 to June 29, 1984

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

No. 34-2

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

1. PERIOD

June 30, 1983 to June 29, 1984

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 Auxillary Boilers | 19) Prevention for Flood and Emergency Procedures |
| 8) Auxilliary 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. 35

AERODROME (SEMINAR) (空港セミナー)

1. PERIOD

September 23, 1983 to November 6, 1983 (1.5-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 3 years
- 4) 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) Observation tours

5. FACILITIES AND INSTITUTIONS

Civil Aviation Bureau, Ministry of Transport

6. REMARKS

No. 36

URBAN TRANSPORT (RAILWAYS) (SEMINAR) (都市交通セミナー〔鉄道〕)

1. PERIOD

July 14, 1983 to September 9, 1983 (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. 37

COMPREHENSIVE URBAN TRANSPORTATION PLANNING

(総合都市交通施設計画)

1. PERIOD

October 13, 1983 to December 10, 1983 (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. 38

SEISMOLOGY AND EARTHQUAKE ENGINEERING (地震工学)

1. PERIOD

September 8, 1983 to August 23, 1984 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (12)

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

6. REMARKS

No. 39

METEOROLOGY (气象学)

1. PERIOD

September 29, 1983 to January 30, 1984 (4.5-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) 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
- 5) National Institute of Agricultural Sciences

6. REMARKS

No. 40

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

1. PERIOD

May 12, 1983 to June 11, 1983 (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 from 1961 to 1966, 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) Orientation at JICA
- 2) Opening Ceremony
- 3) Presentation of Reports and Discussion
- 4) Lectures
- 5) Observation Trip to Kansai District
- 6) Closing Ceremony

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

INFRASTRUCTURE

No. 41

BRIDGE ENGINEERING (橋梁工学)

1. PERIOD

August 18, 1983 to November 4, 1983 (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. 42

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

1. PERIOD

September 29, 1983 to November 20, 1983 (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. 43

CONSTRUCTION ENGINEERING (CIVIL WORKS) (建設施工)

1. PERIOD

September 1, 1983 to December 24, 1983 (4-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. 44

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

1. PERIOD

September 22, 1983 to December 7, 1983 (2.5-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 Centre for Disaster Prevention
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 45

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

1. PERIOD

October 20, 1983 to December 20, 1983 (2-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

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

1. PERIOD

January 26, 1984 to March 12, 1984 (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. 47

RIVER ENGINEERING (河川工学)

1. PERIOD

July 21, 1983 to November 24, 1983 (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 & 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 tour

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. 48

CITY PLANNING (都市計画)

1. PERIOD

August 11, 1983 to October 22, 1983 (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. 49

HOUSING (住宅建設)

1. PERIOD

October 27, 1983 to December 19, 1983 (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 of 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. 50

BUILDING ENGINEERING (建築技術)

1. PERIOD

January 12, 1984 to March 12, 1984 (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) 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. 51

SURVEYING AND MAPPING (MAP COMPILATION AND REPRODUCTION)

(測量及び地図作成)

1. PERIOD

June 9, 1983 to December 9, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Have the knowledge of mathematics and chemistry of senior high school finished level or equivalent, with occupational experience of more than 3 years in the field of cartographic works or reproduction
- 2) Be junior engineers
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Orientation 1 week
 - (1) General orientation on Japan, her history, economy, etc.
 - (2) Programme orientation
- 2) General Programme for All Participants
 - (1) Outline of GSI's works
 - (2) Introduction on surveying and mapping in Japan
 - (3) Introduction on map compilation and reproduction
- 3) Separated Programme for Group A (Map Compilation) 10 weeks
 - (1) Map compilation
 - (2) Photointerpretation
 - (3) Land use survey and compiling of land use map
 - (4) Land condition survey and compiling of land condition map
 - (5) Basic survey of coastal sea area and land condition map of coastal area
 - (6) Lake survey and compiling of lake chart
 - (7) Others
- 4) Separated Programme for Group B (Reproduction) 10 weeks
 - (1) Photography
 - (2) Plate-making
 - (3) Printing
 - (4) Others
- 5) Subject Study 4 weeks
- 6) Study Tour and Others 2 weeks

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 52

HYDROGRAPHIC SURVEY (水路測量)

1. PERIOD

May 5, 1983 to November 9, 1983 (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) General aspects of hydrographi survey | 11) Data processing of harbour survey and coastal survey |
| 2) Geodesy | 12) Tide |
| 3) Map projection | 13) Automatic data logging and processing system |
| 4) Control survey | 14) Submarine topography and geology |
| 5) Coasting | 15) Outline of computer programming |
| 6) Electronic survey | 16) Gravity |
| 7) Sounding | 17) Geomagnetism |
| 8) True north survey | 18) General aspect of ocean survey |
| 9) Harbour survey planning | 19) Field training of ocean survey |
| 10) Field training of harbour survey and coastal survey (including tidal observation and reduction) | 20) Data processing of ocean survey |
| | 21) Observation and study tour |

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

No. 53

PHYSICAL OCEANOGRAPHIC SURVEY (海洋物理調査)

1. PERIOD

November 3, 1983 to March 18, 1984 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) 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
 - Self-study on specific items
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety

6. REMARKS

POSTAL SERVICE, COMMUNICATION AND BROADCASTING

No. 54

RADIO FREQUENCY MONITORING (電波監視)

1. PERIOD

August 4, 1983 to September 29, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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
 - Certification system for radio operators
 - Radio frequency monitoring
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

No. 55

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

1. PERIOD

March 11, 1984 to March 24, 1984 (0.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

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. 56

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

1. PERIOD

August 25, 1983 to November 14, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent, majoring in telecommunications and/or electrical engineering
- 2) Currently engaged in, or have basic knowledge of international telex communication engineering work
- 3) Under 45 years of age
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Fundamentals of Telex Engineering
 - Outline of CT-10 Electronic Telex Switching System
 - Topics on CT-1, CT-11, CT-12 & CT-20 Systems
 - TDM & VIT
 - 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. 57

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

1. PERIOD

April 29, 1983 to July 11, 1983 (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 (history of international telecommunications in Japan, laws and regulations for international telecommunications in Japan, international telecommunication system of KDD)
 - Services and operation (telegraph, telex, telephone, other services)
 - Traffic demand forecast
 - Tariff system
 - Outline of international telecommunications organizations
 - Telecommunication statistics
 - Labor and management relation
 - Circuit planning
 - Accounting procedures
 - Personnel administration, wages etc.
 - Education and training of employees
- 2) Field Studies

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 58

TELEPHONE SWITCHING ENGINEERING (I) (電話交換技術〔I〕)

1. PERIOD

April 1, 1983 to July 10, 1983 (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) Sufficient practical experience on their own switching systems
- 4) Under 40 years of age
- 5) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic and theoretical technology for switching system
 - Electronic switching system (ESS)
 - Practical studies
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 59

MICROWAVE COMMUNICATION ENGINEERING (マイクロウェーブ通信技術)

1. PERIOD

June 30, 1983 to October 9, 1983 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University or college graduates
- 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
 - Basic microwave communication engineering; microwave circuits, microwave propagation and FM transmission theory,
 - Microwave communication equipment; repeater, power plant, antenna and space diversity devices,
 - Microwave communication systems; line-of-sight FM and PCM systems and trans-horizon systems, and
 - Practical experiments and system designing work.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 60

CARRIER TELEPHONY ENGINEERING (搬送電話技術)

1. PERIOD

April 28, 1983 to August 7, 1983 (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
 - Frequency division multiplex system
 - Time division multiplex system
 - Application technique
 - Practical studies based on PCM-24B system and CP-12M coaxial cable system
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 61

TELEPHONE OUTSIDE PLANT ENGINEERING (電話線路技術)

1. PERIOD

June 2, 1983 to September 11, 1983 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University or 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
 - Demand forecast, fundamental telephone network plan, transmission system and engineering economy
 - Outside plant construction and maintenance
 - Outside plant designing
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 62

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

1. PERIOD

March 3, 1984 to March 18, 1984 (0.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (12)

3. QUALIFICATIONS

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

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. 63

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

1. PERIOD

April 29, 1983 to July 31, 1983 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunications or electric/electronic engineering
- 2) Fundamental knowledge of microwave engineering such as microwave propagation, microwave elements and microwave communication system
- 3) Experience in the field of INTELSAT satellite communication service
- 4) 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. 64

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

1. PERIOD

August 25, 1983 to November 7, 1983 (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
 - System design
 - Communication satellite
 - Transmission system
 - System management
 - Technology for future satellite communication system
 - Outline of maritime satellite communication system
 - Field study at earth station
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 65

TELEPHONE NETWORK PLANNING AND DESIGNING (電話網計画設計)

1. PERIOD

October 13, 1983 to January 29, 1984 (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
 - Fundamental telephone network design (touring, numbering, rating, signaling, transmission standards)
 - Outline of various systems (switching system, outside plant facilities, radio transmission system)
 - Toll telephone network planning (demand forecasting, traffic forecasting, toll trunk line expansion program)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 66

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

1. PERIOD

January 5, 1984 to March 25, 1984 (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; General, Semi-automatic operation and ISD Service
 - Considerations in telephone switching system planning
 - Crossbar switching system
 - Fundamental of electronic telephone switching system
 - Stored-program-controlled switching system
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 67

TELEPHONE SWITCHING ENGINEERING (II) (電話交換技術〔II〕)

1. PERIOD

July 28, 1983 to November 6, 1983 (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) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic and theoretical engineering for switching system
 - Electronic switching system (ESS)
 - Practical studies
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 68

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

1. PERIOD

January 5, 1984 to March 19, 1984 (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 35 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.)
 - Service Standard
 - Operation and Maintenance
 - International Data Communication Systems (VENUS, AUTOMEX, DATEL)
- 2) Practical training
 - Modem
 - AUTOMEX, DATEL
 - VENUS
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 69

RADIO COMMUNICATION ENGINEERING (無線通信技術)

1. PERIOD

August 25, 1983 to December 4, 1983 (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 Public Corporation (NTT)

6. REMARKS

No. 70

DATA COMMUNICATION ENGINEERING (データ通信技術)

1. PERIOD

October 27, 1983 to February 5, 1984 (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 domestic data communication systems
 - Digital data switching system
 - Practical studies
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

No. 71

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

1. PERIOD

July 14, 1983 to October 3, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

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 Camera VTR and Telecine Digital Engineering for Color TV, TV Transmitter, Out Broadcasting, Measurement Color TV Receiver and other Color TV Engineerings
- 2) Observation tours
- NHK local station
- Kansai District (Kyoto, Hiroshima

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 72

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

1. PERIOD

July 28, 1983 to October 3, 1983 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

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 sight
- 2) Observation tours
 - An observation trip to local station of NHK

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 73

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

1. PERIOD

May 5, 1983 to June 17, 1983 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Staffs higher than division-chiefs engaged in administrative and 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

In view of the fact that a wide range of knowledge or running television broadcasting is indispensable to managing staffs, the study programme involves major subjects on television broadcasting management such as its system, engineering, finance and programme planning.

Regardless of one's interests or specialities, participants are expected to follow out the schedule through out the course in order to learn solutions to the problems of television broadcasting management.

It is desirable that those who intend to study production method of television programme or television engineering should apply for "Educational Television Programme Course" or the "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. 74

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

1. PERIOD

November 5, 1983 to November 19, 1983 (0.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Directors general or 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 practical training
 - Problems in medium frequency radio broadcasting
 - Technical criteria for frequency allocation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Radio Regulatory Bureau, Ministry of Posts and Telecommunications

6. REMARKS

No. 75

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

1. PERIOD

July 14, 1983 to September 12, 1983 (2.0-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
 - Tube circuit
 - Radio frequency circuit
 - Medium wave transmitter
 - FM and FM stereo theory
 - FM transmitter
 - Short wave transmitter
 - Antenna theory
 - Radio propagation
 - Measurement
 - Practical training and observation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 76

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

1. PERIOD

January 19, 1984 to March 12, 1984 (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
- Color theory, Color TV standard systems, Camera tubes, color Camera, Film and VTR, Digital engineering for color TV, TV transmitter, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

AGRICULTURE

No. 77

AGRICULTURAL CO-OPERATIVES (農業協同組合)

1. PERIOD

May 6, 1982 to June 20, 1982 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

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 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

No. 78

AGRICULTURAL EXTENSION SERVICE (農業普及)

1. PERIOD

April 7, 1983 to July 11, 1983 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalents
- 2) Engaged in the extension work for the farmers or in a position to train extension workers
- 3) Occupational experience of more than 3 years
- 4) Under 45 years of age
- 5) 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, Extension Department, Agricultural Production Bureau, Ministry of Agriculture, Forestry and Fisheries
- 2) Japan Agricultural Extension Association

6. REMARKS

No. 79

RICE CULTIVATION (GENERAL) (稲作(栽培)コース)

1. PERIOD

March 8, 1984 to October 8, 1984 (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) Good working knowledge of 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, 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. 80

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

1. PERIOD

June 16, 1983 to September 1, 1983 (2.5-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. 81

AGRICULTURAL STATISTICS (農林統計)

1. PERIOD

August 4, 1983 to October 31, 1983 (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

Statistics and Information Department, Economic Bureau, Ministry of Agriculture, Forestry and Fisheries

6. REMARKS

No. 82

VEGETABLE CROPS PRODUCTION (野菜生産)

1. PERIOD

February 9, 1984 to November 30, 1984 (10-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) Between 27 and 37 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Applicable method of intensive cultivation of major vegetable crops
 - Matters pertaining to the rationalization of vegetable marketing and circulation
 - Experiment in cultivation method
- 2) Observation tours
 - Visits to the institutes, university, extension office, agricultural co-operative associations and other related organs
 - Visits to the production area of major vegetable crops

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

No. 83

CONTROL OF RICE DISEASES AND INSECT PESTS (稲病虫害防除)

1. PERIOD

May 26, 1983 to December 13, 1983 (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. 84

PESTICIDE UTILIZATION FOR PLANT PROTECTION (農薬利用)

1. PERIOD

January 12, 1984 to June 8, 1984 (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. 85

PLANT GENETIC RESOURCES (植物遺伝資源)

1. PERIOD

May 26, 1983 to August 6, 1983 (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
- 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 germplasm 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 Agricultural Sciences (NIAS)
- 2) Ministry of Agriculture, Forestry and Fisheries
- 3) Tsukuba International Centre, JICA

6. REMARKS

No. 86

IRRIGATION AND DRAINAGE (灌溉排水)

1. PERIOD

February 9, 1984 to November 30, 1984 (10-month)

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 3 years
- 4) Between 27 and 37 years of age (Male)
- 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. 87

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

1. PERIOD

July 7, 1983 to September 10, 1983 (2.5-month)

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. 88

RICE PRODUCTION MECHANIZATION (稲作機械化)

1. PERIOD

February 23, 1984 to November 30, 1984 (9-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) Between 25 and 35 years of age
- 5) Good working knowledge of 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. 89

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

1. PERIOD

June 9, 1983 to December 24, 1983 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 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, fuel and lubricant
 - 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 Agricultural Machinery Manufacturers Association
- 2) Osaka International training Centre, JICA (theoretical lecture)

6. REMARKS

No. 90

POST-HARVEST RICE PROCESSING (粳处理精米加工)

1. PERIOD

August 25, 1983 to November 28, 1983 (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) 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

No. 91

FARM MACHINERY DESIGN (農業機械設計)

1. PERIOD

January 12, 1984 to July 30, 1984 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates from faculty of agricultural engineering or mechanical engineering or post-graduates (M.S. or Ph.D.)
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 27 and 40 years of age
- 5) Good working knowledge of 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 and non-metallic materials. 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

ANIMAL INDUSTRY HUSBANDRY

POULTRY DEVELOPMENT (養 鶏)

1. PERIOD

May 5, 1983 to September 30, 1983 (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, JICA

6. REMARKS

No. 93

ARTIFICIAL INSEMINATION FOR CATTLE (家畜人工受精)

1. PERIOD

April 7, 1983 to October 21, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

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. 94

ANIMAL HEALTH RESEARCH (家畜衛生研究)

1. PERIOD

May 26, 1983 to November 24, 1983 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Qualified Veterinarians in principle
- 2) Technicians or researchers who are presently engaged in the field of animal health, with higher priority on those serving in veterinary colleges or national central veterinary institute
- 3) Under 40 years of age in principle
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of animal husbandry and animal health administration in Japan
 - Bovine, swine, avian and other livestock diseases
- 2) Specialized study will be conducted according to the participants' individual requests at the laboratories of the National Institute of Animal Health in principle or other institutes concerned in special cases
- 3) Observation tours

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. 95

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

1. PERIOD

September 1, 1983 to November 30, 1983 (3-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 7 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 watershed managements of Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Forestry Agency, Ministry of Agriculture, Forestry and Fisheries

6. REMARKS

No. 96

WOOD INDUSTRIAL MACHINERY (木材工業機械)

1. PERIOD

September 22, 1983 to February 24, 1984 (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
 - Technical development and transfer of technology in relation to roles of industrial research institutions, business guidance centres, chambers of commerce and industry, and co-operative associations
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Industrial Research Institute, Aichi Prefecture
- 2) Nagoya International Training Centre, JICA

6. REMARKS

No. 97

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

1. PERIOD

August 25, 1983 to November 24, 1983 (3-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) Qualified in their respective fields
- 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 Quality, Wood Processing, Wood Drying, Sawmilling, Wood Preservation, Fire-retarding, Engineering Properties of Wood and Performance of Wood Construction, Adhesives Gluing and Jointing, Wood Extractives, Pulp and Paper, Fiber and Particleboard, and Wood Carbonization.

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

FISHERIES

No. 98

FISHERIES COOPERATIVE (漁業協同組合)

1. PERIOD

July 2, 1983 to December 14, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

No. 99

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

1. PERIOD

July 2, 1983 to December 14, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior high school 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
 - 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. 100

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

1. PERIOD

January 12, 1984 to June, 1984 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational 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 practical training
 - 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. 101

GENERAL AQUACULTURE (養殖一般)

1. PERIOD

January 12, 1984 to June 13, 1984 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engaged in the guidance and education works in aquaculture for more than three years and are expected to be engaged in this field after the completion of the training course
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 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
 - Spawning inducement by hormone injection
 - Water quality analysis
 - Analysis of feed composition
 - Construction of net cage
- 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. 102

HULL AND ENGINE MAINTENANCE OF SMALL FISHING BOAT

(小型漁船の船体・機関保守)

1. PERIOD

January 12, 1983 to June 15, 1983 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 3 years
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 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. 103

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

1. PERIOD

January 12, 1984 to June 7, 1984 (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 30 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)

6. REMARKS

MINING AND MINERALS

No. 104

GROUNDWATER RESOURCES DEVELOPMENT (地下水資源開発)

1. PERIOD

August 18, 1983 to December 17, 1983 (4-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

- 1) Lectures and practical training
 - Groundwater exploration
 - Aquifer selection
 - Measurement of aquifer constants
 - Groundwater utilization
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 105

OFFSHORE PROSPECTIVE (沿海鉱物資源探査)

1. PERIOD

May 12, 1983 to December 15, 1983 (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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 106

MINING ENGINEERING (鉱 山)

1. PERIOD

August 18, 1983 to November 6, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 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 and practical training
 - Knowledge and techniques of mining industry in Japan
 - Mining, mineral dressing, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 107

MINE SAFETY (鉱山保安)

1. PERIOD

March 1, 1984 to May 31, 1984 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates who have basic knowledge of mine safety or the 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
 - Outline of mining in Japan
 - Administration and mine safety law
 - Approval test methods of mine appliances
 - Basic matters of safety in mines
(Rock mechanics, ventilation, gas explosion, mine fire, etc.)
 - Mine safety appliances
(Gas detections, explosion-proof, dust measurements)
 - Mine safety training
(Rescue work, handling of oxygen blassing apparatus)
- 2) Observation tours
Visit to the institutes, universities, metal and coal mines, etc.

5. FACILITIES AND INSTITUTIONS

- 1) Tsukuba International Centre, JICA
- 2) National Research Institute for Pollution and Resources
- 3) Industrial Location & Environmental Protection Bureau
Ministry of International Trade and Industry
- 4) Hokkaido Mine Safety Centre

6. REMARKS

INDUSTRY

No. 108

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

1. PERIOD

June 23, 1983 to August 18, 1983 (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) More than 30 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 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, JICA
- 2) Chu-San-Ren (Central Japan Industries Association)

6. REMARKS

No. 109

INDUSTRIAL STANDARDIZATION AND QUALITY CONTROL (工業標準化)

1. PERIOD

July 1, 1983 to September 9, 1983 (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) 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 discussions and seminars
 - Fundamentals in industrial standardization
 - Administration of national standardization
 - Standardization at international level
 - Legal metrology & measurement standards
 - Export inspection system
 - Reference of standards
 - JIS marking system
 - Presentation of product standards
 - Quality control & statistical methods
 - Reliability and quality assurance
 - Company standardization
 - Value engineering and standardization
 - Standardization in physical distribution
 - Permeation and implementation of standards

5. FACILITIES AND INSTITUTIONS

Agency of Industrial Science and Technology, Japanese Standards Association

6. REMARKS

No. 110

MEASURES FOR SMALLER INDUSTRY (中小企業対策)

1. PERIOD

January 5, 1984 to March 27, 1984 (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

6. REMARKS

No. 111

METROLOGY AND MEASUREMENT STANDARDS (計測標準)

1. PERIOD

June 9, 1983 to December 8, 1983 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) 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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 112

BUSINESS FEASIBILITY STUDY AND MANAGEMENT PRACTICE

(工業開発計画実務)

1. PERIOD

April 1, 1983 to September 30, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and case practices
 - Organization and system, finance and accounting, production, marketing, and business diagnosis
 - Case study
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre, JICA
- 2) Central Japan Industrial Association (CJIA)

6. REMARKS

CERTIFICATION SYSTEMS (認証検査制度)

1. PERIOD

January 5, 1984 to March 5, 1984 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or 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. 114

INDUSTRIAL PROPERTY SYSTEM (工業所有権制度)

1. PERIOD

September 1, 1983 to October 20, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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 and practical training
 - Outline of the industrial property system
 - International treaties
 - Patent Law
 - Utility model law
 - The examination standard for applications for patent or utility model
 - Patent information
 - Relation between technology transfer and the industrial property system
 - Design law
 - Trademark law
 - Industrial Property System & Patent Attorney System
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 115

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

1. PERIOD

November 3, 1983 to November 19, 1983 (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 and practical training
 - Industrial property system and progress of industry
 - The meaning and functions of patent information
 - Present state in Japan as regards patent information
 - International cooperation in the field of patent information
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 116

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

1. PERIOD

September 22, 1983 to March 26, 1984 (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) Roll of small industries development/promotion activities
- 2) Roles of financing, technological, marketing and managerial assistant schemes
- 3) Knowledge and know-hows for operating small business
- 4) Knowledge and know-hows to isolate problems, to detect the causes, to design effective course of action to solve the problems and to implement recommendations

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 117

CERAMIC ENGINEERING (窯業技術)

1. PERIOD

April 1, 1983 to December 26, 1983 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) 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
 - Refractories
 - Kiln and firing
 - Quality control
- 2) Practice
 - Body preparation and Glaze preparation
 - Measurement and experiment on the properties
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre, JICA
- 2) Government Industrial Research Institute, Nagoya
- 3) Seto Branch, Government Industrial Research Institute, Nagoya

6. REMARKS

No. 118

GLASS TECHNOLOGY (ガラス工学)

1. PERIOD

January 5, 1984 to March 24, 1984 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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) Oaka International Training Centre, JICA
- 2) Government Industiral Research Institute, Osaka

6. REMARKS

No. 119

PLASTICS (プラスチック)

1. PERIOD

From August 4, 1983 to November 5, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

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 35 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

6. REMARKS

No. 120

REFRACTORY MANUFACTURING TECHNOLOGY (耐火物製造技術)

1. PERIOD

September 22, 1983 to March 26, 1984 (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, JICA
- 2) Technical Research Laboratory of Mino Yogyo Co., Ltd.

6. REMARKS

No. 121

CERAMIC GLAZE AND DECORATION (釉・着彩技術)

1. PERIOD

April 1, 1983 to September 30, 1983 (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 ware and glaze in general
 - Ceramic calculation
 - Study on glaze properties and various type of glazes
 - Decoration techniques
 - Low and high temperature glaze
 - Screen and decal printing
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 122

TILE MANUFACTURING TECHNOLOGY (タイル製造技術)

1. PERIOD

August 11, 1983 to March 26, 1984 (7.5-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 26 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Applicability test of raw materials
 - Processing machines operation
 - Forming machines operation
 - Glaze preparation
 - Firing
 - Packing and inspection
 - Quality control methods
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 123

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

1. PERIOD

February 16, 1984 to March 26, 1984 (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. 124

PETROCHEMICAL INDUSTRY FOR MIDDLE EAST COUNTRIES

(石油化学工業)

1. PERIOD

January 26, 1984 to March 10, 1984

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University or college graduates
- 2) Presently engaged in responsible assignment in the field
- 3) Under 45 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, etc.

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. 125

ENZYME TECHNOLOGY (酵素工業)

1. PERIOD

April 7, 1983 to October 7, 1983 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Master's or Doctor's degree in chemistry, biochemistry, agricultural chemistry, food chemistry of applied microbiology
- 2) 3 or more years of experience in fermentation technology or enzyme technology
- 3) Between 25 and 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical 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. 126

RESEARCH ON CHEMICAL TECHNOLOGY (化学技术研究)

1. PERIOD

September 8, 1983 to September 7, 1984 (12-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 Items
 - 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
 - j) Safety assessment of explosives

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 127

FOUNDRY ENGINEERING (鋳造技術)

1. PERIOD

August 11, 1983 to March 26, 1984 (7.5-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, 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. 128

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

1. PERIOD

April 1, 1983 to September 30, 1983 (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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 129

METAL WORKS AND ENGINEERING (金属加工技術)

1. PERIOD

September 22, 1983 to July 1, 1984 (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) Government Industrial Research Institute, Nagoya
- 2) Industrial Research Institute, Aichi Prefecture
- 3) Metal Working Industries

6. REMARKS

No. 130

WELDING TECHNOLOGY (溶接技術)

1. PERIOD

April 1, 1983 to December 26, 1983 (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
 - Electrical 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. 131

ELECTRICAL STEEL MAKING (電気製鋼技術)

1. PERIOD

January 5, 1984 to May 13, 1984 (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 furnace, 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. 132

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

1. PERIOD

April 29, 1983 to August 8, 1983 (4-month)

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

5. FACILITIES AND INSTITUTIONS

Nippon Steel Corporation

6. REMARKS

No. 133

HEAT TREATMENT TECHNOLOGY (熱処理技術)

1. PERIOD

January 5, 1984 to July 1, 1984 (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 technologies of heat treatment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 134

TOOLING AND PRODUCTION FACILITY PRACTICAL ENGINEERING

(治工具生産技術)

1. PERIOD

September 22, 1983 to March 26, 1984 (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, JICA
- 2) Central Japan Industries Association (CJIA)

6. REMARKS

No. 135

SHIPBUILDING (船舶技術)

1. PERIOD

January 12, 1984 to December 24, 1984 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates who majored in engineering or equivalent with experience of more than three (3) years in the field of shipbuilding or repair
- 2) Male, under 30 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practical training
 - Applied ship dynamics and ship calculation
 - Basic design, hull design and outfitting design
 - Drawing and moulding plan
 - Hull construction, welding and outfitting processes
 - Marine engine and marine electricity
 - Production management
 - Shipyard practices
 - Shipbuilding processes
 - Test and sea-trial
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ship Bureau, Ministry of Transport
- 2) Overseas Shipbuilding Cooperation Centre (OSCC)

6. REMARKS

No. 136

MAINTENANCE OF CONSTRUCTION MACHINERY (建設機械整備)

1. PERIOD

May 5, 1983 to August 2, 1983 (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) Presentation of country report
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 137

MECHANICS DIESEL AUTOMOBILE VEHICLES (AUTOBUSES, TRUCKS)

(バス、トラック整備技術)

1. PERIOD

January 12, 1984 to March 25, 1984 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Qualified 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 tour

5. FACILITIES AND INSTITUTIONS

Hino Motors, Ltd.

6. REMARKS

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

No. 138

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

1. PERIOD

September 29, 1983 to December 12, 1983 (3-month)

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 of Steel Plant
 - Maintenance of Electricity Plant
 - Maintenance of Chemistry Plant
 - Maintenance of 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

No. 139

COTTON WEAVING ENGINEERING (棉織布技術)

1. PERIOD

April 1, 1983 to September 30, 1983 (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, JICA

6. REMARKS

No. 140

TEXTILE TECHNOLOGY (繊維工学)

1. PERIOD

September 22, 1983 to December 18, 1983 (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, designing, etc.
 - Utilization of native plant fibers
 - Development of synthetic polymers
 - Development of spinning and fiber making process
- 2) Observations

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 141

**COIN AND DECORATION MANUFACTURE
METAL ANALYSIS AND PRECIOUS METAL REFINING (貨幣及び勳章製造)**

1. PERIOD

April 7, 1983 to September 30, 1983 (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. 142

INDUSTRIAL DESIGN (インダストリアルデザイン)

1. PERIOD

September 1, 1983 to November 5, 1983 (2.5-month)

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 Industrial Designers Association

6. REMARKS

No. 143

PACKAGING ENGINEERING (包装技術)

1. PERIOD

January 19, 1984 to March 19, 1984 (2.5-month)

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. 144

HYDRO-ELECTRIC POWER ENGINEERING (水力発電)

1. PERIOD

May 5, 1983 to July 21, 19883 (3-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 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
 - Planning, designing, construction and maintenance of dams and hydro-power stations
- 2) Observation tours
 - Various types of power stations
 - Electric Power Development Company, Ltd.

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 145

THERMAL-ELECTRIC POWER ENGINEERING (火力発電)

1. PERIOD

May 5, 1983 to July 21, 1983 (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 (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
 - Power system management
 - Operation and maintenance of thermal power station
- 2) Observation tours
 - Various types of power stations
 - Heavy electrical machinery shops

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 146

ELECTRIC POWER MANAGEMENT (電気事業経営)

1. PERIOD

August 25, 1983 to October 21, 1983 (2-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 5 years
- 4) Under 50 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
– Planning and management of power system
- 2) Observation tours
– Hydro, thermal and nuclear stations
– Heavy machinery manufacturers

5. FACILITIES AND INSTITUTIONS

- 1) Overseas Electric Industry Survey Institute Inc.
- 2) Chubu Electric Power Co., Ltd.

6. REMARKS

No. 147

ELECTRIC POWER DISTRIBUTION (配電技術)

1. PERIOD

September 8, 1983 to November 25, 1983 (2.5-month)

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
 - Transmission, transformation and distribution lines
 - Design, construction and maintenance of transmission lines
 - Distribution facilities and work
 - Indoor and outdoor wiring, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Overseas Electric Industry Survey Institute Inc.
- 2) Kansai Electric Power Co., Inc.

6. REMARKS

No. 148

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

1. PERIOD

September 15, 1983 to November 11, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

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 system
 - Basic policy for development of power sources expansion
 - Power system expansion planning of the power systems
 - Design, operation and maintenance of substations
 - Design, construction, operation and maintenance of transmission, operation and maintenance 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

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

No. 149

GEOHERMAL ENERGY (地熱エネルギー)

1. PERIOD

September 1, 1983 to November 21, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Young scientists or technologists who graduated from universities, majoring in geology, geophysics, chemistry, electrical engineering, mechanical engineering, mining, or similar subjects or those having scholastic ability equivalent to the above or higher than that
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Geothermal geology
 - Structural geology
 - Geothermal hydrology
 - Power plant engineering, etc.
- 2) Observation tours
 - Geothermal power plant

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

COMMERCE AND TRADE

No. 150

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

1. PERIOD

May 12, 1983 to July 9, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or 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
 - Trade promotion
 - Japanese economy and business
 - International economy
 - Japanese trade
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

World Trade Centre of Japan (WTC)

6. REMARKS

No. 151

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

1. PERIOD

September 27, 1983 to November 26, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

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

5. FACILITIES AND INSTITUTIONS

World Trade Centre of Japan (WTC)

6. REMARKS

No. 152

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

1. PERIOD

August 25, 1983 to December 13, 1983 (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. 153

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

1. PERIOD

October 6, 1983 to December 7, 1983 (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 Promotion
 - Convention Business
 - Joint tourism promotion
 - Tourism Policy and Administration
 - Tourist Industries
 - Tourist Service
 - National Tourist Office Representations in Japan
 - Activities for Japanese Overseas Tourist
 - Tourism Development Projects in the Developing Countries
 - 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. 154

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

1. PERIOD

May 5, 1983 to July 4, 1983 (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) 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) Vocational Training Bureau, Ministry of Labour

6. REMARKS

No. 155

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

1. PERIOD

August 25, 1983 to October 24, 1983 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Engaged in management of vocational training centre or in vocational training administration
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of vocational training and educational 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. 156-1

VOCATIONAL TRAINING INSTRUCTORS
(MACHINERY TRADE) (職業訓練指導員養成〔機械〕)

1. PERIOD

April 7, 1983 to March 24, 1984 (12-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 3 years
- 4) Between 25 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Strength of materials
 - Machine design
 - Metals and metal technology
 - Machine tools
 - Mechanical processing
 - Measuring and testing
 - Bench work
 - Machine tool operation
 - Nontraditional mechanical processing practice
 - Mechanical experiment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 156-2

VOCATIONAL TRAINING INSTRUCTORS
(ELECTRICAL TRADE) (職業訓練指導員養成(電気))

1. PERIOD

April 7, 1983 to March 24, 1984 (12-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 3 years
- 4) Between 25 and 35 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. 156-3

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

1. PERIOD

April 7, 1983 to March 24, 1984 (12-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

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. 156-4

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

1. PERIOD

April 7, 1983 to March 24, 1983 (12-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) Between 25 and 35 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. 156-5

VOCATIONAL TRAINING INSTRUCTORS
(ELECTRONIC TRADE) (職業訓練指導員養成〔電子〕)

1. PERIOD

April 7, 1983 to March 24, 1984 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) University graduates
- 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
 - Electronic components
 - Electronic circuits
 - 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. 156-6

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

1. PERIOD

April 7, 1983 to March 24, 1984 (12-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

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. 157

HIGHLY SKILLED MACHINIST (上級技能者訓練)

1. PERIOD

April 7, 1983 to March 19, 1984 (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 35 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. 158

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

1. PERIOD

February 16, 1984 to March 29, 1984 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

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) Vocational Training Bureau, Ministry of Labour

6. REMARKS

No. 159

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

1. PERIOD

April 7, 1983 to March 20, 1984 (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
 - Mechanical engineering
 - Machining
 - Drafting
 - Die and mold making theory
- 2) Practice
 - Basic practice (including cutting theory)
 - Applied practice (die and mold making)
- 3) Activities in related private institution
 - NC machine
 - Wire-cut discharge
- 4) 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.

SCIENCE AND CULTURE

No. 160

COMPUTER TECHNOLOGY (コンピューター技術)

1. PERIOD

September 15, 1983 to December 15, 1983 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Have fairly good knowledge and experience (preferably not less than three years as programmers) in COBOL and FORTRAN programming
- 2) Under 35 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - System Design
 - Operating System
 - COBOL
 - PERT/TIME, PERT/MANPOWER, Statistics, Populations, Census, Data entry system etc.
 - Information retrieval
 - Lectures on; Government computerlization, Computer, Wed in banking, Industries, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) The Asia Electronics Union, Tokyo
- 2) Information Processing System Laboratory, Fujitsu Limited

6. REMARKS

No. 161

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

1. PERIOD

April 7, 1983 to June 11, 1983 (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

- Fundamental Theory
- Observation
- Practice
- Analog Analyzing Processing
- Ground Truth Training
- Digital Analysis
- Tecynical Discussion

5. FACILITIES AND INSTITUTIONS

Remote Sensing Technology Centre of Japan (RESTEC)

6. REMARKS

No. 162

ADVANCED COMPUTER TECHNOLOGY (SOFTWARE) (上級コンピューター技術)

1. PERIOD

January 19, 1984 to March 25, 1984 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Having participated in one of the group training courses in computer technology (Tokyo) between 1977 and 1981 or have experience (not less than 2 years) as system analyst
- 2) Good working knowledge of English
- 3) Preferably under forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Software engineering
 - Industrial engineering
 - On-line system
 - Data base system
 - System generation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Asia Electronics Union

6. REMARKS

No. 163

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

1. PERIOD

April 11, 1983 to September 25, 1983 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Licensed physicians authorized by their governments, under about forty five (45) years of age, having occupational experience of more than several years in radiation treatment
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Treatment of cancers of the head and neck and the uterine cervix
 - Combined therapy with radiation and surgery for head and neck cancers and on the effectiveness of high dose rate remote afterloading system for uterine cervix cancer
- 2) Observation trips

5. FACILITIES AND INSTITUTIONS

- 1) National Institute of Radiological Sciences
- 2) National Cancer Center Hospital
- 3) Tokyo Metropolitan Komagome Hospital
- 4) Cancer Institute Hospital
- 5) Hokkaido University Hospital
- 6) Nuclear Safety Research Association

6. REMARKS

MEDICAL TREATMENT

No. 164

TUBERCULOSIS CONTROL (結核対策)

1. PERIOD

June 9, 1983 to October 17, 1983 (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. 165

CLINICAL ONCOLOGY (がん対策)

1. PERIOD

August 18, 1983 to December 19, 1983 (4-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 Centre

6. REMARKS

No. 166

MICROBIAL DISEASES STUDY (微生物病研究)

1. PERIOD

April 7, 1983 to March 19, 1984 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

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
 - Microbiology
 - Virology
 - Parasitology
 - Other related subjects
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Research Institute for Microbial Diseases, Osaka University

6. REMARKS

No. 167

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

1. PERIOD

January 12, 1984 to March 11, 1984 (2-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. 168

MEDICAL RADIOGRAPHY (医療放射線技術)

1. PERIOD

December 1, 1983 to June 30, 1984 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

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) Hospital attached to the Medical Faculty of Osaka University

6. REMARKS

No. 169

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

1. PERIOD

May 5, 1983 to June 13, 1983 (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. 170

LABORATORY WORKS FOR TUBERCULOSIS CONTROL (結核対策細菌技術指導者)

1. PERIOD

October 20, 1983 to February 20, 1984 (4-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

No. 171

NATIONAL HEALTH ADMINISTRATION (SEMINAR) (衛生行政セミナー)

1. PERIOD

April 28, 1983 to June 2, 1983 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Medically qualified directors or higher ranking administrators of the national government taking charge of health administration
- 3) In a position to participate in planning and deciding national health administration policy

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Maternal and child health
 - Health manpower development
 - Communicable disease control
 - Health administration in Japan
 - Mental health
 - School health
- 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

In view of the fact that this Seminar is mainly composed of discussions among lecturers and participants, all participants are requested to study further the programme themes given in General Information.

No. 172

IMPORT AND EXPORT FOOD INSPECTION (輸出入食品検査技術)

1. PERIOD

September 15, 1983 to December 13, 1983 (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

6. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Centre (HIC), JICA
- 2) National Institute of Hygienic Sciences, Ministry of Health and Welfare
- 3) Food Inspection Organizations, Japan Frozen Food Inspection Corporation and others

6. REMARKS

No. 173

COUNTERMEASURES AGAINST RENAL FAILURE (腎不全対策)

1. PERIOD

October 20, 1983 to December 5, 1983 (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
- 3) Attendance at International Artificial Organs' Meeting

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. 174

PARASITE CONTROL ADMINISTRATION FOR SENIOR OFFICERS (SEMINAR)

(寄生虫予防指導者セミナー)

1. PERIOD

January 20, 1983 to February 11, 1983 (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

The Japan Association of Parasite Control

6. REMARKS

No. 175

CARDIOVASCULAR DISEASES (循環器病対策)

1. PERIOD

September 8, 1983 to December 19, 1983 (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 cerebrovascular 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 Center

6. REMARKS

No. 176

GASTROINTESTINAL PATHOLOGY (消化管病理学)

1. PERIOD

September 1, 1983 to November 23, 1983 (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	3 weeks
(3) Individual Training	4 weeks
(4) Observation Tour	1 week
(5) International Congress of Clinical Pathology	1 week
(6) 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. 177

**FAMILY PLANNING ADMINISTRATION FOR
SENIOR OFFICERS (SEMINAR) (家族計画指導者セミナー)**

1. PERIOD

September 15, 1983 to October 8, 1983 (3-week)

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. 178

COMMUNITY-BASED FAMILY PLANNING STRATEGY (SEMINAR)

(家族計画組織活動セミナー)

1. PERIOD

July 4, 1983 to August 2, 1983 (1-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. 179

MEDICAL AND HEALTH ASPECTS IN FAMILY PLANNING (SEMINAR)

(家族計画医学保健セミナー)

1. PERIOD

April 4, 1983 to April 25, 1983 (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. 180

MENTAL RETARDATION (精神薄弱福祉)

1. PERIOD

September 8, 1983 to March 7, 1984 (6-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

No. 181

**PUBLIC ADMINISTRATION OFFICERS
ON WOMEN'S PROBLEMS (SEMINAR)** (婦人関係行政セミナー)

1. PERIOD

October 6, 1983 to November 21, 1983 (1.5-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. 182

INDUSTRIAL SAFETY AND HEALTH (SEMINAR) (労働安全衛生行政セミナー)

1. PERIOD

September 30, 1983 to November 12, 1983 (1.5-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 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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Labour
- 2) Tokyo International Centre, JICA

6. REMARKS

No. 183

INDUSTRIAL RELATIONS (SEMINAR) (労使関係行政セミナー)

1. PERIOD

October 27, 1983 to December 14, 1983 (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. 184

LABOUR STATISTICS (SEMINAR) (労働統計セミナー)

1. PERIOD

June 30, 1983 to August 13, 1983 (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) Data Analysis Division, Statistics and Information Department, Ministry of Labour

6. REMARKS

No. 185

EMPLOYMENT PROMOTION (SEMINAR) (雇用開発セミナー)

1. PERIOD

September 1, 1983 to October 14, 1983 (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