

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

1982 Japanese Fiscal Year (April, 1982 to March, 1983)

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

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## INTRODUCTION

This brochure is prepared to introduce the summary of content of the working plans of group training courses for participants from developing countries, as part of Japan's technical cooperation programmes for the fiscal year of 1982.

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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## **1. DEVELOPMENT PLAN**

№ 1

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

**1. PERIOD**

September 9, 1982 to October 23, 1982 (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**

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

1. PERIOD

June 4, 1982 to August 21, 1982 (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 to age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

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

**1. PERIOD**

October 21, 1982 to March 31, 1983 (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 (IDCJ)

**6. REMARKS**



ENVIRONMENTAL ADMINISTRATION (環境行政)

1. PERIOD

February 24, 1983 to April 2, 1983 (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

**ENVIRONMENTAL ENGINEERING (WATER POLLUTION CONTROL)** (環境技術)

**1. PERIOD**

September 16, 1982 to October 30, 1982 (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, Environment Agency

**6. REMARKS**

STATISTICS I (GENERAL) (統計 I (総合))

1. PERIOD

September 23, 1982 to March 31, 1983 (6.5-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

STATISTICS II (ADP) (統計II (ADP))

1. PERIOD

September 23, 1982 to December 29, 1982 (3.5-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/1 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

NATIONAL GOVERNMENT ADMINISTRATION (国家行政)

1. PERIOD

September 2, 1982 to November 27, 1982 (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

LOCAL GOVERNMENT (地方行政)

1. PERIOD

April 8, 1982 to June 29, 1982 (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

FIRE SERVICE ADMINISTRATION (消防行政)

1. PERIOD

June 10, 1982 to August 10, 1982 (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

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

**1. PERIOD**

September 16, 1982 to October 23, 1982 (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 and discussions
  - Study on investigation techniques
  - Countermeasures against addicts and public relation activities
  - Identification of narcotic drugs
  - Instruments and equipments for investigation
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

National Police Agency

**6. REMARKS**



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

1. PERIOD

September 30, 1982 to October 31, 1982 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Police system in Japan
  - Present situation of traffic police in Japan
  - Traffic safety countermeasures in Japan
  - Statistics and analyses of traffic accidents
  - Utilization of computers by the police
  - System of aid to victims of road traffic accidents and automobile insurance
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

6. REMARKS

CRIMINAL JUSTICE ADMINISTRATION (刑事司法行政)

1. PERIOD

April 15, 1982 to July 6, 1982 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Judge, public prosecutors, senior police officials, or criminal justice administrators, 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
  - Ways to gather appropriate information leading to the proper and fair dispositional decisions
  - Necessity and justifiable scope of discretionary power
  - Characteristics and structures of the decisions
  - Means of making decision and making process
- 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

**PREVENTION OF OFFENCES AND TREATMENT OF OFFENDERS (SENIOR SEMINAR)**  
(犯罪防止 (上級))

1. PERIOD

February 3, 1983 to March 21, 1983 (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 15

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

**1. PERIOD**

August 26, 1981 to November 30, 1982 (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**

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

1. PERIOD

May 27, 1982 to July 14, 1982 (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 areas development planning
  - Land use plan, water resources development plan, transportation plan and housing plan
  - Disaster counter-measure in Japan
  - Theory and method of regional development planning
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

National Land Agency

6. REMARKS

**INDUSTRIAL PROPERTY SYSTEM** (工業所有権制度)

**1. PERIOD**

September 16, 1982 to November 4, 1982 (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**

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

**1. PERIOD**

November 11, 1982 to November 27, 1982 (1-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Eight (8)

**3. QUALIFICATIONS**

- 1) Senior officers for the administration of industrial property
- 2) University graduates or equivalent
- 3) 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**

## 2. AGRICULTURE



AGRICULTURAL STATISTICS (農林水産統計)

1. PERIOD

August 5, 1982 to October 31, 1982 (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

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

AGRICULTURAL EXTENSION SERVICE (農業普及)

1. PERIOD

May 6, 1982 to July 31, 1982 (3-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

PESTICIDE UTILIZATION FOR PLANT PROTECTION (農業利用)

1. PERIOD

January 6, 1983 to May 31, 1983 (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) Plant Protection Research Laboratory, Agricultural Department, Kobe University
- 4) National Institute of Hygienic Sciences, Osaka Branch

6. REMARKS

PLANT GENETIC RESOURCES (植物遺伝資源)

1. PERIOD

January 6, 1983 to March 19, 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 germplasms by tissue culture, etc.
- 2) Technical practices
  - Seed testing
  - Plant tissue culture
  - Production of virus free scions, 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

**HOME-LIFE IMPROVEMENT EXTENTION** (生活改善普及)

**1. PERIOD**

June 17, 1982 to August 27, 1982 (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 extention activities
  - Home-life improvement extention 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**

IRRIGATION AND DRAINAGE (灌溉排水)

1. PERIOD

February 10, 1983 to November 31, 1983 (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 (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.

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Center, JICA

6. REMARKS

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

1. PERIOD

July 8, 1982 to September 11, 1982 (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
  - Planning criteria
  - Land improvement project
  - Design criteria
  - Operation and maintenance facilities and water management
- 2) Observation tours
  - Present situation of agricultural land utilization and water resources development in Japan

5. FACILITIES AND INSTITUTIONS

Agricultural Structure Improvement Bureau, Ministry of Agriculture, Forestry and Fisheries

6. REMARKS



**RICE PRODUCTION MECHANIZATION** (稲作機械化)

**1. PERIOD**

February 24, 1983 to December 14, 1983 (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 25 and 35 years of age
- 5) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures 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 works, administration of mechanization and co-operative use 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**

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

**1. PERIOD**

June 10, 1982 to December 25, 1982(6.5-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) 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**

**FARM MACHINERY DESIGN** (農業機械設計)

**1. PERIOD**

January 13, 1983 to July 30, 1983 (7-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

- 1) University graduates
- 2) Qualified in their respective field
- 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) Lectures, experiments and practical training
  - Design engineering
  - Trial-making of simple farm machinery
  - Materials
  - Technology in common
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Tsukuba International Agricultural Training Centre, JICA

**6. REMARKS**

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

1. PERIOD

May 27, 1982 to December 14, 1982 (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) Plant Protection Research Laboratory of Agricultural Department, Kobe University

6. REMARKS

**RICE CULTIVATION** (稲栽培)

**1. PERIOD**

February 24, 1983 to December 14, 1983 (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 25 and 35 years of age
- 5) 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

**5. FACILITIES AND INSTITUTIONS**

Tsukuba International Agricultural Training Centre, JICA

**6. REMARKS**

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

1. PERIOD

August 26, 1982 to November 29, 1982 (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

VEGETABLE CROPS PRODUCTION (野菜生産)

1. PERIOD

February 10, 1983 to November 30, 1983 (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
- 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
  - Breeding and seed production technology
  - Experiment in cultivation method
- 2) Observation tours
  - Visits to the institutes, agricultural high school, university, agricultural co-operative associations and other related organs

5. FACILITIES AND INSTITUTIONS

Tsukuba International Agricultural Training Centre, JICA

6. REMARKS

### **3. ANIMAL INDUSTRY HUSBANDRY**



**ARTIFICIAL INSEMINATION FOR CATTLE** (家畜人工受精)

**1. PERIOD**

April 22, 1982 to October 21, 1982 (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**

ANIMAL HEALTH RESEARCH (家畜衛生研究)

1. PERIOD

May 6, 1982 to November 5, 1982 (6-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) Good working knowledge of English
- 4) Under 40 years of age in principle

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

National Institute of Animal Health (NIAH),  
Ministry of Agriculture, Forestry and Fisheries

6. REMARKS

POULTRY DEVELOPMENT (養 鶏)

1. PERIOD

May 6, 1982 to October 1, 1982 (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 2 years
- 4) Between 26 and 40 years of age
- 5) 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

#### **4. FORESTRY**

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

**1. PERIOD**

September 2, 1982 to December 1, 1982 (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**

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

**1. PERIOD**

August 26, 1982 to November 25, 1982 (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

- Nursery practice, tree tending regeneration, tree physiology, tree breeding and bamboo cultivation
- Forest soil, fertilizer, Pathology & Entomology in forest practice
- Forest management and economy, remote sensing and forest inventory
- Field training

**5. FACILITIES AND INSTITUTIONS**

Forestry and Forest Products Research Institute, Ministry of Agriculture, Forestry and Fisheries

**6. REMARKS**

WOOD INDUSTRIAL MACHINERY (木材工業機械)

1. PERIOD

September 23, 1982 to February 28, 1983 (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

## 5. FISHERIES



**FISHERIES CO-OPERATIVES** (漁業協同組合)

1. PERIOD

July 1, 1982 to December 17, 1982 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Outline of fisheries co-operatives, fish marketing, fisheries finance, fisheries co-operatives management, accounting of fisheries co-operatives
  - Fisheries legislation, fisheries co-operatives association law
  - Fisheries mutual insurance system, fishing boat insurance system
  - Essential factors related to fisheries industries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

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

1. PERIOD

July 1, 1982 to December 17, 1982 (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 classification and materials of fishing gear
  - Outlines of fishing boat, engine and fish finder, oceanography, fishing ground, fish behaviour and fisheries management
  - Fishing by movable gears, stationary gears
  - Angling and long line fishing
  - Hitching, webbing, handling of netting
  - Model net making, practical net making
  - Engine operation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

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

1. PERIOD

January 13, 1983 to June 15, 1983 (5.5-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 40 years of age
- 5) Good working knowledge of Engling

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Fishing gears and methods of coastal fisheries in Japan
  - Handling, repair and maintenance of small type marine diesel engines
  - Fisheries administration, economy and fisheries co-operatives
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

GENERAL AQUACULTURE (養殖一般)

1. PERIOD

January 13, 1983 to June 15, 1983 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

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
  - Fisheries economics and management
  - Aquaculture techniques in general
  - Fresh water fish culture
  - Sea water fish culture
  - Molluscan shell fish and sea algae culture in sea water
- 2) Observation tours
  - Fishing ports
  - Fishing activities
  - Fish processing
  - Fisheries cooperatives association

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Centre, JICA

6. REMARKS

**HULL AND ENGINE MAINTENANCE OF SMALL FISHING BOAT**

(小型漁船の船体・機関保守)

**1. PERIOD**

January 13, 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

**5. FACILITIES AND INSTITUTIONS**

Kanagawa International Fisheries Training Centre, JICA

**6. REMARKS**

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

**1. PERIOD**

January 13, 1983 to June 7, 1983 (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, JJCA
- 2) Public Research Institutions
- 3) Food Processing Factories (Food Manufacturing Plants)

**6. REMARKS**

## **6. CONSTRUCTION AND CIVIL ENGINEERING**

CONSTRUCTION ENGINEERING (CIVIL WORKS) (建設施工)

1. PERIOD

September 2, 1982 to December 25, 1982 (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, erection and project control of construction
- 3) Good working knowledge of English
- 4) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - International Construction Project
  - Basic engineering
  - Construction Management
  - Construction Technology (Road and Others)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS



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

**1. PERIOD**

September 30, 1982 to November 30, 1982 (2-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten(10)

**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**

Public Works Research Institute, Ministry of Construction

**6. REMARKS**

MAINTENANCE OF CONSTRUCTION MACHINERY (建設機械整備)

1. PERIOD

May 6, 1982 to August 3, 1982 (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) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SURVEYING AND MAPPING (GEODETIC SURVEYING) (測地測量)

1. PERIOD

May 13, 1982 to December 13, 1982 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten(10)

3. QUALIFICATIONS

- 1) Knowledge of mathematics and physics of university graduate level or equivalent with occupational experience of more than 7 years in the field of geodetic surveying
- 2) Present or future engagement in geodetic surveying, excluding administrative personnel
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - General introduction to surveying and mapping in Japan
  - Outline of geodetic, photogrammetric and cartographic works in Geographical Survey Institute
  - Specialized course
    - i. Mathematics for surveying
    - ii. Adjustment method for surveying
    - iii. Geodesy, physical geodesy, geodetic astronomy, satellite geodesy
    - iv. Gravity measurements, geomagnetic measurements
    - v. Triangulation, precise geodetic survey, precise levelling
    - vi. Instruments
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Geographical Survey Institute, Ministry of Construction

6. REMARKS

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

1. PERIOD

September 30, 1982 to November 21, 1982 (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 Information Centre
  - Kansai district

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

**BRIDGE ENGINEERING** (橋梁工学)

**1. PERIOD**

August 19, 1982 to November 5, 1982 (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**

**COMPREHENSIVE URBAN TRANSPORTATION PLANNING (SEMINAR)**

(総合都市交通施設計画セミナー)

**1. PERIOD**

October 14, 1982 to December 11, 1982 (2-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten(10)

**3. QUALIFICATIONS**

- 1) University graduates 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**

RIVER ENGINEERING (河川工学)

1. PERIOD

July 22, 1982 to November 27, 1982 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten(10)

3. QUALIFICATIONNS

- 1) University graduates specialized in civil engineering 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
  - 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 tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

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).

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

1. PERIOD

September 30, 1982 to December 15, 1982 (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

National Research Centre for Disaster Prevention

6. REMARKS



PORT AND HARBOUR ENGINEERING (港湾工学)

1. PERIOD

April 29, 1982 to September 7, 1982 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

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

CITY PLANNING (都市計画)

1. PERIOD

August 12, 1982 to October 23, 1982 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Present engagement in the city planning
- 3) Under 40years 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
  - Urban renewal
  - Development of new resident cities
  - Housing plan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

HOUSING (住宅建設)

1. PERIOD

October 28, 1982 to December 20, 1982 (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
  - Redevelopment of residential area
  - Industrialization of housing production
  - Planning and development of new town
  - Housing problem and housing policy in developing countries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

SEISMOLOGY AND EARTHQUAKE ENGINEERING (地震工学)

1. PERIOD

September 2, 1982 to August 18, 1983 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

International Institute of Seismology and Earthquake Engineering (IISSE), Building Research Institute, Ministry of Construction

6. REMARKS

**BUILDING ENGINEERING** (建築技術)

**1. PERIOD**

January 13, 1983 to March 8, 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) 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 Center, JICA

**6. REMARKS**

## 7. PUBLIC UTILITY WORKS

ELECTRIC POWER MANAGEMENT (電気事業経営)

1. PERIOD

September 30, 1982 to November 26, 1982 (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

THERMAL-ELECTRIC POWER ENGINEERING (火力発電)

1. PERIOD

May 6, 1982 to July 24, 1982 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

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



HYDRO-ELECTRIC POWER ENGINEERING (水力発電)

1. PERIOD

May 6, 1982 to July 24, 1982 (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

ELECTRIC POWER DISTRIBUTION (配電技術)

1. PERIOD

August 12, 1982 to October 29, 1982 (3-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., Ltd.

6. REMARKS

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

1. PERIOD

September 16, 1982 to November 12, 1982 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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
  - Present situation of electric power industry in Japan
  - Planning of electric power supply in Japan
  - Planning of electric power development in Japan
  - Transmission and distribution system in Japan
  - Basic policy for development of power sources expansion
  - Power systems 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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

GEOHERMAL ENERGY (地熱エネルギー)

1. PERIOD

September 2, 1982 to November 23, 1982 (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

WATER WORKS ENGINEERING (上水道施設)

1. PERIOD

June 10, 1982 to September 10, 1982 (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

SEWAGE WORKS ENGINEERING (下水道技術)

1. PERIOD

September 9, 1982 to December 13, 1982 (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 Corporation

6. REMARKS

## **8. MINING AND MINERALS**

MINING ENGINEERING (鉱山)

1. PERIOD

August 19, 1982 to November 7, 1982 (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
- 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



**OFFSHORE PROSPECTING** (沿海鉱物資源探査)

**1. PERIOD**

May 13, 1982 to December 16, 1982 (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**

GROUNDWATER RESOURCES DEVELOPMENT (地下水資源開発)

1. PERIOD

August 19, 1982 to December 18, 1982 (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

Geological Survey of Japan, Ministry of International Trade and Industry

6. REMARKS

MINE SAFETY (鉱山保安)

1. PERIOD

January 27, 1983 to April 26, 1983 (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 breathing apparatus)
- 2) Observation tours  
Visit to the institutes, universities, metal and coal mines, etc.

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

## **9. HEAVY INDUSTRY**

METAL WORKS AND ENGINEERING (金属加工技術)

1. PERIOD

September 23, 1982 to July 1, 1983 (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) Nagoya Municipal Industrial Research Institute

6. REMARKS

FOUNDRY ENGINEERING (鋳造技術)

1. PERIOD

August 12, 1982 to March 27, 1982 (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) Nagoya Municipal Industrial Research Institute

6. REMARKS

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

1. PERIOD

April 1, 1982 to October 1, 1982 (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 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*
  - Electroplating of Cu, Ni, Cr and Zn on metal bases
  - Plating on plastics
  - Electro-polishing
  - Electro-forming and mechanizing
  - Plating equipment
  - Industrial pollution prevention
  - Industrial management
  - Aluminum anodizing
  - Effluent control technology and metal finishing equipment
- 2) *Observation tours*

5. FACILITIES AND INSTITUTIONS

- 1) *Government Industrial Research Institute, Nagoya*
- 2) *Industrial Research Institute, Aichi Prefecture*
- 3) *Nagoya Municipal Industrial Research Institute*
- 4) *Nagoya International Training Centre, JICA*

6. REMARKS

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

**1. PERIOD**

August 12, 1982 to November 30, 1982 (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**



HEAT TREATMENT TECHNOLOGY (熱処理技術)

1. PERIOD

January 6, 1983 to July 1, 1983 (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

**TOOLING AND PRODUCTION FACILITY**  
**PRACTICAL ENGINEERING** (治工具生産技術)

**1. PERIOD**

September 23, 1982 to March 27, 1983 (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**

WELDING TECHNOLOGY (溶接技術)

1. PERIOD

June 6, 1982 to December 27, 1982 (7-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 26 and 35 years of age
- 5) 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, Japan Welding Society
- 2) The Faculty of Engineering, Nagoya University

6. REMARKS

ELECTRICAL STEEL MAKING (電気製鋼技術)

1. PERIOD

January 6, 1983 to May 15, 1983 (4.5-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) Between 26 and 40 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 Special Steel Corporation
- 3) Nagoya International Training Centre (NITC), JICA

6. REMARKS

SHIPBUILDING (船舶技術)

1. PERIOD

January 6, 1983 to December 23, 1983 (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

6. REMARKS

## 10. CHEMICAL INDUSTRY

**CERAMIC ENGINEERING** (窯業技術)

**1. PERIOD**

April 8, 1982 to December 17, 1982 (8.5-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 controlPractinee
  - Body preparation and Glaze preparation
  - Measurement and experiment on the properties
- 2) 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**

**REFRACTORY MANUFACTURING TECHNOLOGY** (耐火物製造技術)

**1. PERIOD**

September 23, 1982 to March 27, 1983 (6.5-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) Between 26 and 45 years of age

**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**



CERAMIC GLAZE AND DECORATION (釉・着彩技術)

1. PERIOD

April 1, 1982 to October 1, 1982 (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

TILE MANUFACTURING TECHNOLOGY (タイル製造技術)

1. PERIOD

August 12, 1982 to March 27, 1983 (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 Scito Co., Ltd.
- 3) Nagoya International Training Centre, JICA

6. REMARKS

PLASTICS (プラスチック)

1. PERIOD

November 14, 1982 to March 28, 1983 (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) 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

- 1) Osaka Municipal Technical Research Institute
- 2) Osaka International Training Centre, JICA

6. REMARKS

**PETROCHEMICAL INDUSTRY FOR  
MIDDLE EAST COUNTRIES**

(石油化学工業)

**1. PERIOD**

January 27, 1983 to March 11, 1983 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Twelve (12)

**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 compavies of the Associalion of Petrochemical Industries in Japan

**6. REMARKS**

ENZYME TECHNOLOGY (酵素工学)

1. PERIOD

April 1, 1982 to October 8, 1982 (6.5-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 or applied microbiology
- 2) More than 3 years of experience in fermentation technology or enzyme technology
- 3) Between 25 and 35 years of age
- 4) Good working knowldeg of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Cultivation of microorganisms for enzyme production
  - Purification of enzymes
  - Study of enzymes
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Osaka Municipal Technical Research Institute (OMTRI)

6. REMARKS

## 11. LIGHT INDUSTRY

**METROLOGY AND MEASUREMENT STANDARDS** (計量標準)

**1. PERIOD**

June 10, 1982 to December 9, 1982 (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**

**INDUSTRIAL DESIGN** (インダストリアルデザイン)

**1. PERIOD**

September 2, 1982 to November 6, 1982 (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 Export General Merchandise Centre

**6. REMARKS**



**INDUSTRIAL STANDARDIZATION AND QUALITY CONTROL** (工業標準化)

**1. PERIOD**

July 1, 1982 to September 25, 1982 (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 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**

**CERTIFICATION SYSTEMS** (認証検査制度)

**1. PERIOD**

January 6, 1983 to March 6, 1983 (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**

TEXTILE TECHNOLOGY (繊維工学)

1. PERIOD

January 6, 1983 to March 27, 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

Research Institute for Polymers and Textiles,  
Agency of Industrial Science and Technology,  
Ministry of International Trade and Industry

6. REMARKS

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

**1. PERIOD**

February 24, 1983 to March 27, 1983 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

- 1) Be high-ranking officials in charge of textile machinery industries governmental organizations or managers of the government owned textile mills
- 2) Be over thirty years of age
- 3) Have a sufficient command of spoken and written English.

**4. DESCRIPTION OF TRAINING**

- 1) General Introduction of textile machinery industry
- 2) Lecture forum on weaving, spinning, dyeing and preparatory machinery
- 3) Observation of machinery manufacturers

**5. FACILITIES AND INSTITUTIONS**

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Japan Textile Manufacturers Association
- 3) Tokai Textile Machinery Association

**6. REMARKS**

**COIN AND DECORATION MANUFACTURE,  
METAL ANALYSIS AND PRECIOUS METAL REFINING (貨幣及び勲章製造)**

**1. PERIOD**

April 1, 1982 to October 1, 1982 (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**

COTTON WEAVING ENGINEERING (綿織布技術)

1. PERIOD

April 1, 1982 to October 1, 1982 (6-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 30 and 45 years of age
- 5) 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) Tokai Textile Machinery Industry Association
- 4) Nagoya International Training Centre, JICA

6. REMARKS

GLASS TECHNOLOGY (ガラス工学)

1. PERIOD

February 3, 1983 to April 30, 1983 (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) Age between 25 and 35 years
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Fundamental properties of glass
  - Sheet glass
  - Container glass
  - Machinery and materials
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

## **12. TRANSPORTATION AND TRAFFIC**



**SHIPPING BUSINESS** (海運経営実務)

**1. PERIOD**

September 9, 1982 to November 11, 1982 (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**

Shipping Bureau, Ministry of Transport

**6. REMARKS**

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

**1. PERIOD**

October 14, 1982 to November 19, 1982 (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 practical training
  - Seamen's education and training
  - Qualification for ships officer
  - Labor standards of seamen
  - Seamen's welfare
  - Employment exchange system for seamen
  - Mariners' insurance system
  - Tendency of ships technical innovation
  - present situation and the future of shipping
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Seafarers Bureau, Ministry of Transport

**6. REMARKS**

**PORTS AND HARBOURS (SEMINAR)** (港湾セミナー)

**1. PERIOD**

October 21, 1982 to December 19, 1982 (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**

AIDS TO NAVIGATION (航路標識)

1. PERIOD

August 26, 1982 to October 30, 1982 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) High school graduates or equivalent
- 2) Administrators in the field of navigation aids service
- 3) Under 45 years of age
- 4) Good working knowledge of 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
  - Kanto Deca Station
  - Inubozaki Lighthouse
  - Hasaki Loran Station
  - Tokyo Wan Traffic Advisory Service Centre

5. FACILITIES AND INSTITUTIONS

Maritime Safety Agency

6. REMARKS

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

## 1. PERIOD

July 1, 1982 to June 30, 1983 (12-month)

## 2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

## 3. QUALIFICATIONS

- 1) High school graduates who majored in Marine Science or equivalent with the experience of more than three (3) years of on-board Navigation service
- 2) Male, between twenty two (22) and thirty five (35) years of age
- 3) Good working knowledge of English

## 4. DESCRIPTION OF TRAINING

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

## 5. FACILITIES AND INSTITUTIONS

Okinawa Marine Technical College, Japan Seamen Education Service

## 6. REMARKS

Programme for ASEAN countries

HYDROGRAPHIC SURVEY (水路測量)

1. PERIOD

May 6, 1982 to November 7, 1982 (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 hydrographic survey | 9) Harbour survey planning           |
| 2) Geodesy                                | 10) Field training                   |
| 3) Projection                             | 11) Data processing                  |
| 4) Control survey                         | 12) Tide                             |
| 5) Coastline                              | 13) Submarine topography and geology |
| 6) Electronic survey                      | 14) Gravity                          |
| 7) Sounding                               | 15) Geomagnetism                     |
| 8) True north survey                      | 16) Observation and study tours      |

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

**PHYSICAL OCEANOGRAPHIC SURVEY** (海洋物理調査)

**1. PERIOD**

November 4, 1982 to March 16, 1983 (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 Agency

**6. REMARKS**

**SHIPBUILDING MANAGEMENT** (造船經營管理)

**1. PERIOD**

September 2, 1982 to November 1, 1982 (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**



RAILWAY ELECTRIFICATION (鉄道電化)

1. PERIOD

October 7, 1982 to December 10, 1982 (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 Railway (JNR)
- 3) Railway Electrification Association

6. REMARKS

**MAINTENANCE AND IMPROVEMENT  
ENGINEERING OF PERMANENT WAYS**

(鉄道線路保守改良)

**1. PERIOD**

June 10, 1982 to September 13, 1982 (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 Corporation
- 4) Osaka International Training Centre, JICA

**6. REMARKS**

RAILWAY SIGNAL ENGINEERING (鉄道信号)

1. PERIOD

January 13, 1983 to April 30, 1983 (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

**RAILWAY ROLLING STOCK ENGINEERING** (鉄道車両)

**1. PERIOD**

July 15, 1982 to October 7, 1982 (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 45 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**

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

1. PERIOD

July 15, 1982 to September 7, 1982 (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 thirty-five (35) 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

AERODROME (SEMINAR) (空港セミナー)

1. PERIOD

September 23, 1982 to November 3, 1982 (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

- 1) Civil Aviation Bureau, Ministry of Transport
- 2) Japan Airport Consultants Co., Inc.

6. REMARKS

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

1. PERIOD

May 13, 1982 to July 14, 1982 (2.5-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
  - Foreign Government Tourist Offices in Japan
  - Activities for Japanese Overseas Tourist
  - Tourism Development Projects in the developing countries
- 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

METEOROLOGY (気 象 学)

1. PERIOD

September 30, 1982 to January 31, 1983 (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 College of JMA

6. REMARKS



### **13. POSTAL SERVICE, COMMUNICATION AND BROADCASTING**

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

1. PERIOD

February 28, 1983 to March 13, 1983 (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

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

**1. PERIOD**

October 11, 1982 to October 24, 1983 (0.5-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) 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**

**TELECOMMUNICATION DEVELOPMENT (SEMINAR)** (電気通信開発セミナー)

**1. PERIOD**

March 6, 1983 to March 19, 1983 (0.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent
- 2) Directors general or high-ranking officials responsible for management or administration of telecommunications in governmental or operational organizations
- 3) Have a sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - The up-to-date situation and topics in the field of telecommunication in Japan
  - Present situation and prospects of telecommunication development, domestic and abroad
  - Problems of telecommunication development, home and abroad, particularly in participating countries
- 2) Observation tours
  - To various related institutions and manufacturing plants

**5. FACILITIES AND INSTITUTIONS**

Ministry of Posts and Telecommunications

**6. REMARKS**

**SATELLITE COMMUNICATION ENGINEERING (REGULAR)**

(衛星通信技術〔普通〕)

**1. PERIOD**

April 29, 1982 to August 1, 1982 (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) Occupational experience of preferably less than one year
- 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**

SATELLITE COMMUNICATION ENGINEERING (ADVANCED)

(衛星通信技術〔上級〕)

1. PERIOD

August 26, 1982 to November 8, 1982 (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 (IS-IV and IS-V)
  - 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

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

**1. PERIOD**

October 21, 1982 to February 6, 1983 (4-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
  - Fundamental telephone network design
  - Outline of various systems
  - Toll telephone network planning
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Nippon Telegraph and Telephone Public Corporation (NTT)

**6. REMARKS**

**TELEPHONE OUTSIDE PLANT ENGINEERING** (電話線路技術)

**1. PERIOD**

June 3, 1982 to September 12, 1982 (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**



**INTERNATIONAL TELEX COMMUNICATION ENGINEERING**

(国際テレックス通信技術)

**1. PERIOD**

August 26, 1982 to November 15, 1982 (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
  - Terminal Equipment
  - Traffic Management
- 2) Relevant Techniques
  - Computer: Hardware, Software, Programming
  - Fundamentals of Recent Techniques
  - Packet Switching System
- 3) Field practice at relevant KDD field offices
- 4) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Kokusai Denshin Denwa Co., Ltd. (KDD)

**6. REMARKS**

MICROWAVE COMMUNICATION ENGINEERING

(マイクロウェーブ通信技術)

1. PERIOD

July 1, 1982 to October 10, 1982 (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, 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

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

**1. PERIOD**

September 9, 1982 to December 19, 1982 (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
- 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 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**

**INTERNATIONAL DATA COMMUNICATIONS ENGINEERING**

(国際データ通信技術)

**1. PERIOD**

January 6, 1983 to March 21, 1983 (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**

**CARRIER TELEPHONY ENGINEERING** (搬送電話技術)

**1. PERIOD**

April 29, 1982 to August 8, 1982 (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**

RADIO FREQUENCY MONITORING (電波監視)

1. PERIOD

August 5, 1982 to September 30, 1982 (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
  - Purpose of radio frequency monitoring in Japan and international cooperation
  - Substance of radio frequency monitoring service in Japan
  - Arrangement and use of results of radio frequency monitoring
  - Outline of radio frequency monitoring facilities in Japan
  - Licensing and supervising of radio stations
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

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

**1. PERIOD**

April 29, 1982 to July 12, 1982 (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
- 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**

**INTERNATIONAL TELEPHONE SWITCHING ENGINEERING**

(国際電話交換技術)

**1. PERIOD**

January 6, 1983 to March 27, 1983 (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**



**TELEPHONE SWITCHING ENGINEERING (I)** (電話交換技術 (I))

**1. PERIOD**

April 1, 1982 to July 11, 1982 (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)
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Nippon Telegraph and Telephone Public Corporation (NTT)

**6. REMARKS**

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

1. PERIOD

July 22, 1982 to October 31, 1982 (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*
- 4) *Good working knowledge of English*

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Basic and theoretical engineering for switching system
  - Crossbar switching system
  - Electronic switching system
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

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

**1. PERIOD**

November 14, 1982 to November 27, 1982 (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 public broadcasting 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**

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

**1. PERIOD**

May 6, 1982 to June 18, 1982 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Twelve (12)

**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**

Ministry of Posts and Telecommunications

**6. REMARKS**

In view of the fact that a wide range of knowledge on 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).

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

1. PERIOD

July 15, 1982 to October 4, 1982 (3-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
  - On the spot 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

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

**1. PERIOD**

July 1, 1982 to October 4, 1982 (3.5-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  
-Electron tubes, color theory, telecine, VTR transmitter, studio work, outside broadcasting, new broadcasting techniques, etc.
- 2) Observation tours  
-NHK Local station  
-Kansai District (Kyoto, Nara)

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

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

1. PERIOD

January 6, 1983 to March 14, 1983 (2.5-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

RADIO BROADCASTING ENGINEERING (ラジオ放送技術)

1. PERIOD

July 1, 1982 to September 13, 1982 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Transmitting system in general
  - Basic theory
  - Tube circuit
  - Radio frequency circuit
  - Medium wave transmitter
  - FM and FM stereo theory
  - FM 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



## **14. MEDICAL TREATMENT AND WELFARE**

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

**1. PERIOD**

April 7, 1982 to April 28, 1982 (1-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**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) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Japan Organization for International Cooperation in Family Planning, Inc. (JOICFP)

**6. REMARKS**

**COMMUNITY-BASED FAMILY PLANNING PROGRAMME (SEMINAR)**

(家族計画組織活動セミナー)

**1. PERIOD**

November 3, 1982 to November 24, 1982 (1-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Fifteen (15)

**3. QUALIFICATIONS**

- 1) Responsible officers for the logistics in family planning programmes of respective governments or voluntary organizations at a central level
- 2) With sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Presentation and discussions
  - Family planning in Japan
  - Family planning programmes in relation to the logistics of each participating country
  - Main theme:
    - How to supply contraceptive effectively to the population
    - Distribution channel of contraceptives
    - Equipment and personnel
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Japanese Organization for International Cooperation in Family Planning, Inc. (JOICFP)

**6. REMARKS**

**INFORMATION, EDUCATION AND COMMUNICATION  
IN FAMILY PLANNING (SEMINAR)** (家族計画広報教育セミナー)

**1. PERIOD**

*June 2, 1982 to June 23, 1982 (1-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 25 and 50 years of age*
- 4) *Good working knowledge of English*

**4. DESCRIPTION OF TRAINING**

- 1) *Lectures and practical training*
  - IE & C and rural community participation into family planning programme*
  - IE & C and rural health development programme*
  - Decentralization of IE & C and family planning and medical services*
- 2) *Observation tours*

**5. FACILITIES AND INSTITUTIONS**

*Japanese Organization for International Cooperation in Family Planning, Inc. (JOICFP)*

**6. REMARKS**

**MEDICAL AND HEALTH ASPECTS  
IN FAMILY PLANNING (SEMINAR)** (家族計画医学保健セミナー)

1. PERIOD

August 11, 1982 to September 1, 1982 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

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

MICROBIAL DISEASES STUDY (微生物病研究)

1. PERIOD

April 1, 1982 to March 21, 1983 (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 40 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

CLINICAL ONCOLOGY (ガン対策)

1. PERIOD

August 19, 1982 to December 20, 1982 (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

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

**1. PERIOD**

October 21, 1982 to December 20, 1982 (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**



**COUNTERMEASURES AGAINST RENAL FAILURE** (腎不全対策)

**1. PERIOD**

September 30, 1982 to November 10, 1982 (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. DESCRIPTION OF TRAINING**

- 1) Lectures, seminars and practice
  - Basic nephrology
  - Hemodialysis
  - Transplantation
- 2) Observation tours
- 3) Attendance at Renal 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**

MEDICAL SCIENCE AND TECHNOLOGY (医科学技術)

1. PERIOD

September 9, 1982 to June 14, 1983 (9.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Present engagement in the field of medicine or public health
- 3) Under 40 years of age
- 4) Good working knowledge of English
- 5) Be healthy enough to accomplish the 9.5 months' training

4. DESCRIPTION OF TRAINING

- 1) Lectures, seminars and laboratory works
  - General epidemiology
  - Virology and Microbiology
  - Medical Zoology
  - Pathology
  - Biostatistics
  - Internal Medicine
  - Community Health
  - Selected topics of interest
- 2) Observation tours
- 3) Individual Training  
After the group training, each participant selects a specific field for his individual training.

5. FACILITIES AND INSTITUTIONS

Kobe University

6. REMARKS

**LABORATORY WORKS FOR TUBERCULOSIS CONTROL**

(結核対策細菌技術指導者)

**1. PERIOD**

October 21, 1982 to February 21, 1983 (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**

**TUBERCULOSIS CONTROL** (結核対策)

**1. PERIOD**

June 10, 1982 to October 18, 1982 (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**

**TUBERCULOSIS CONTROL (ADVANCED)** (結核対策〔上級〕)

**1. PERIOD**

May 6, 1982 to June 13, 1982 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Fifteen (15)

**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

**6. REMARKS**

**CARDIOVASCULAR DISEASES** (循環器病対策)

**1. PERIOD**

September 9, 1983 to December 20, 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) Observation tours

**5. FACILITIES AND INSTITUTIONS**

National Cardiovascular Center

**6. REMARKS**

**MEDICAL RADIOGRAPHY** (医療放射線技術)

**1. PERIOD**

December 2, 1982 to June 30, 1983 (7-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Seven (7)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

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

**5. FACILITIES AND INSTITUTIONS**

- 1) College of Biomedical Technology, Osaka University
- 2) Hospital attached to the Medical Faculty of Osaka University

**6. REMARKS**

NURSING ADMINISTRATION (看護管理)

1. PERIOD

June 10, 1982 to December 10, 1982 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Completed or equivalent the a) Advanced Nursing Study Course for Southeast Asian Nurses operated by INFJ or b) Training Course in Advanced Nursing conducted by JICA
- 2) Administrative position in Nursing at present or in future
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Japanese Language
  - Introduction to Nursing Administration
  - Nursing Administration
    - (Lectures and Practice)
    - a. Lectures on Nursing Administration
    - b. Nursing Administration in hospitals
- 2) Observations and Study Tours

5. FACILITIES AND INSTITUTIONS

The International Nursing Foundation of Japan (INFJ)

6. REMARKS



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

**1. PERIOD**

April 29, 1982 to June 3, 1981 (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

**5. FACILITIES AND INSTITUTIONS**

- 1) Hachioji International Training Centre
- 2) Ministry of Health and Welfare
- 3) International Medical Foundation of Japan

**6. REMARKS**

**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**

MENTAL RETARDATION (精神薄弱福祉)

1. PERIOD

September 9, 1982 to March 8, 1983 (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

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

1. PERIOD

May 20, 1982 to July 26, 1982 (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

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

**1. PERIOD**

September 16, 1982 to December 14, 1982 (3-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Six (6)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent with occupational experience of more than 3 years in the field of import and export food inspection
- 2) Under forty (40) years of age
- 3) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Discussion on Country Report, Programme Orientation, Evaluation Meeting and Closing Ceremony, etc.
- 2) Lectures
  - (1) Present situation of import and export food
  - (2) Food Sanitation Law
  - (3) Inspection system for import and export food
  - (4) Inspection system in domestic market
  - (5) Rejected cases of import and export food
  - (6) Food ingredient and its testing method
- 3) Practice  
Chemical and bacteriological testing of import and export foods mentioned below by official method
  - (1) Marine products
  - (2) Canned food
  - (3) Confectionary
  - (4) Vegetables
  - (5) Packaging material
  - (6) Others
- 4) Observation of private and public facilities related to food inspection in and around Kobe
- 5) Study Tours

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

## **15. MANAGEMENT TECHNOLOGY**

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

**1. PERIOD**

September 23, 1982 to March 27, 1983 (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**

MEASURES FOR SMALLER INDUSTRY (中小企業対策)

1. PERIOD

January 6, 1983 to March 28, 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 5 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - General perspectives of Japan's smaller enterprises
  - Its development and management method in connection with governmental policies, taxation systems, financing and banking provisions, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Osaka Prefectural Government
- 2) The Osaka Prefectural Institute for Industrial Management
- 3) Osaka International Training Centre, JICA

6. REMARKS



SMALLER ENTERPRISE DEVELOPMENT (SEMINAR)

(中小工業開発セミナー)

1. PERIOD

June 24, 1982 to August 20, 1982 (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

**BUSINESS FEASIBILITY STUDY AND MANAGEMENT PRACTICE**

(工業開発計画実務)

**1. PERIOD**

April 1, 1982 to October 1, 1982 (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**

## 16. ECONOMY, FINANCE AND MONEY

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

1. PERIOD

August 26, 1982 to December 10, 1982 (3.5-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) National Tax Administration
- 2) Hachioji International Training Centre, JICA

6. REMARKS

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

**1. PERIOD**

September 28, 1982 to October 16, 1982 (1-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Fifteen (15)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

- 1) Comparative study on tax system and administration through presentation of country reports and round-table discussions
- 2) Field trips to tax offices and various industry plants  
-This year's themes
  - a) Excise Taxes
  - b) Relationship between Taxpayers and the Tax Authorities

**5. FACILITIES AND INSTITUTIONS**

- 1) Ministry of Finance
- 2) National Tax Administration

**6. REMARKS**

CUSTOMS TECHNIQUE (税関行政)

1. PERIOD

September 2, 1982 to November 1, 1982 (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
  - Export and import clearance
  - Clearance of postal items
  - 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

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

**1. PERIOD**

May 6, 1982 to July 5, 1982 (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**

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

**1. PERIOD**

September 23, 1982 to November 20, 1982 (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**



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

**1. PERIOD**

August 26, 1982 to December 14, 1982 (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**

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

**6. REMARKS**

LOAN PROCEDURES (SEMINAR) (借款手続セミナー)

1. PERIOD

October 14, 1982 to November 7, 1982 (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

## 17. LABOUR

No 167

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

**1. PERIOD**

September 30, 1982 to November 12, 1982 (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**

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

**1. PERIOD**

October 7, 1982 to November 22, 1982 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

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

**5. FACILITIES AND INSTITUTIONS**

- 1) Women's and Young Workers' Bureau, Ministry of Labour
- 2) Tokyo International Centre, JICA

**6. REMARKS**

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

**1. PERIOD**

October 28, 1982 to December 15, 1982 (2-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

- 1) Presently engaged in administration of industrial relations in the governmental bodies
- 2) Under forty-five (45) years of age
- 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 state of industrial relations
  - Labour economy
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Labour Policy Bureau, Ministry of Labour
- 2) Japan Institute of Labour

**6. REMARKS**

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

1. PERIOD

July 1, 1982 to August 14, 1982 (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) Data Analysis Division, Ministry of Labour
- 2) Hachioji International Training Centre, JICA

6. REMARKS

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

1. PERIOD

April 22, 1982 to June 21, 1982 (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) Vocational Training Bureau, Ministry of Labour
- 2) Hachioji International Training Centre, JICA

6. REMARKS



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

**1. PERIOD**

September 2, 1982 to October 15, 1982 (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 countermesures against Unemployment and Man Power Development in Japan
  - Countermesures to workers'welfare in Japan
  - Observation of various public institutions and organizations
- 2) Observation trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

HIGHLY SKILLED MACHINIST (上級技能者訓練)

1. PERIOD

April 1, 1982 to March 21, 1983 (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

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

1. PERIOD

August 26, 1982 to October 25, 1982 (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

Vocational Training Bureau, Ministry of Labour

6. REMARKS

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

1. PERIOD

February 17, 1983 to March 30, 1983 (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
- 2) Qualified in their respective fields
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Vocational Training Administration System
  - Outline of Vocational Training System
  - Vocational Training System in Enterprises
  - Trade Skill Test System
  - Vocational Education Policy
  - Employment Policy
  - Outline of Present Situation of Industry and Labour
- 2) Discussion
- 3) Observation
  - Facilities and institutions of Vocational Training
  - Basic Industries

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No 176-1

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

**1. PERIOD**

May 13, 1982 to March 30, 1983 (11-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
  - 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**

Institute of Vocational Training

**6. REMARKS**

VOCATIONAL TRAINING INSTRUCTORS  
(ELECTRIC TRADE)

(職業訓練指導員養成 (電気))

1. PERIOD

May 13, 1982 to March 30, 1983 (11-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
  - 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

Institute of Vocational Training

6. REMARKS

No 176-3

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

1. PERIOD

May 13, 1982 to March 30, 1983 (11-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

Institute of Vocational Training

6. REMARKS

No 176-4

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

1. PERIOD

May 13, 1982 to March 30, 1983 (11-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 air-conditioning
  - Automobile mechanism I
  - Repair and performance test of automobiles
  - Repair and performance test of engines
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS



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

**1. PERIOD**

May 13, 1982 to March 30, 1983 (11-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Six (6)

**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
  - Communication engineering
  - Electronic circuits
  - Transistor radio
  - TV receiver
  - Computer
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Institute of Vocational Training

**6. REMARKS**

No 176-6

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

**1. PERIOD**

May 13, 1982 to March 30, 1983 (11-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 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, mechanic of welding
  - Testing and inspection of welded joint
  - Experiments on welding
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Institute of Vocational Training

**6. REMARKS**

DIE MAKING TECHNOLOGY (金型工作技術)

1. PERIOD

April 1, 1982 to March 21, 1983 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Mechanical engineering
  - Machining
  - Drafting
  - Die making theory
- 2) Practice
  - Basic Practice (inclneling cutting theory)
  - Applied Practice (die making)
- 3) Activities in related private institutions
  - NC machines
  - Wire-cut discharge
- 4) Observations
  - Visit and observation to related factories
  - Study tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

№ 178

**MECHANICS DIESEL AUTOMOBILE VEHICLES (AUTOBUSES, TRUCKS)**

(バス, トラック整備技術)

**1. PERIOD**

January 13, 1983 to March 26, 1983 (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 interpretation of Japanese into French

**PACKAGING ENGINEERING** (包装技術)

**1. PERIOD**

January 13, 1983 to March 14, 1983 (2.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Fifteen (15)

**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**

- 1) Industrial Products Research Institute
- 2) Japan Packaging Institute

**6. REMARKS**

## 18. NUCLEONICS

**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**

August 5, 1982 to September 13, 1982 (1.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Twelve (12)

**3. QUALIFICATIONS**

- 1) Senior scientists, who have basic knowledge on radiation and radioactivity having a Ph. D. degree or equivalent with considerable experience (about 10 years) actively engaged in at least one of the fields of radio ecology, radiation measurement, health physics, radiation protection and relevant administrative works in radiation health sciences
- 2) Good working Knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and discussions
  - Current status and future prospect of medical and biological application of radiation and isotopes
  - Genetic and Somatic effects of radiation
  - Thermoluminescence dosimetry
  - Low level waste management, etc.
- 2) Observation trips

**5. FACILITIES AND INSTITUTIONS**

- 1) National Institute of Radiological Sciences
- 2) Nuclear Safety Research Association

**6. REMARKS**

## 19. INFORMATION SCIENCE



COMPUTER TECHNOLOGY (コンピューター技術)

1. PERIOD

September 16, 1982 to December 16, 1982 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Must have fundamental knowledge of FORTRAN programming
- 2) Must be intent on learning fundamental COBOL programming and advanced FORTRAN programming including practice
- 3) Under 35 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - COBOL
  - FORTRAN
  - Application to Statistics, especially Population Census
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Asia Electronics Union, Tokyo

6. REMARKS

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

**1. PERIOD**

April 8, 1982 to June 12, 1982 (2.5-month)

**2. NUMBER OF PARTICIPANTS TO BE RECEIVED**

Ten (10)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

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

**5. FACILITIES AND INSTITUTIONS**

Remote Sensing Technology Centre of Japan (RESTEC)

**6. REMARKS**

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

1. PERIOD

January 20, 1983 to March 26, 1983 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Have participated in one of the group training courses in computer technology (Tokyo) between 1977 and 1979 or have experience (not less than 2 years) as system analyst.
- 2) Good working knowledge of English
- 3) Be preferably under forty (40) years of age

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

The Asia Electronics Union

6. REMARKS

