

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

1981 (April, 1981 to March, 1982)

**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 1981.

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**

No 1

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

**1. PERIOD**

May 21, 1981 to June 29, 1981 (1.5-month)

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

Fifteen (15)

**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**

- 1) Economic Planning Agency

**6. REMARKS**

No 2

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

**1. PERIOD**

June 4, 1981 to August 21, 1981 (3-month)

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

Fifteen (15)

**3. QUALIFICATIONS**

- 1) Occupational experience of 3 or 4 years
- 2) Between 30 and 45 years of age
- 3) 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 programmes
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

International Development Center of Japan

**6. REMARKS**

No 3

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

**1. PERIOD**

October 1, 1981 to March 31, 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
  - Development planning
  - Basic theory and techniques of project planning
  - Agricultural development and its project planning
  - Industrial development and its project planning
  - Planning and evaluation of transportation projects
  - Development strategies of international organization
  - Japanese economic growth
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

International Development Centre of Japan

**6. REMARKS**



ENVIRONMENTAL ADMINISTRATION (環境行政)

1. PERIOD

February 25, 1982 to April 3, 1982 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

International Affairs Division, Environment Agency

6. REMARKS

No 5

ENVIRONMENTAL ENGINEERING WATER POLLUTION CONTROL (環境技術)

1. PERIOD

September 17, 1981 to October 26, 1981 (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

Environment Agency

6. REMARKS

**STATISTICS I (GENERAL) (統計 I (総合))**

**1. PERIOD**

September 17, 1981 to March 31, 1982 (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
  - Economic accounting statistics
  - Demographic and social statistics
  - Economic statistics
  - Agricultural statistics
- 2) Observation of field operations of statistical surveys
- 3) General discussion on Energy Statistics, Environmental Statistics and Statistics on Informal Sectors

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**5. FACILITIES AND INSTITUTIONS**

Statistical Institute for Asia and the Pacific, Administrative Management Agency

**6. REMARKS**

**STATISTICS II (ADP) (統計II (ADP))**

**1. PERIOD**

September 17, 1981 to December 25, 1981 (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 24 and 32 years of age
- 4) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

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

**5. FACILITIES AND INSTITUTIONS**

Statistical Institute for Asia and the Pacific  
Administrative Management Agency

**6. REMARKS**

NATIONAL GOVERNMENT ADMINISTRATION (国家行政)

1. PERIOD

September 3, 1981 to November 28, 1981 (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 30 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 9, 1981 to June 30, 1981 (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 4, 1981 to August 5, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Bachelors in law, politics or administration
- 2) Three year's experience in the field of fire service
- 3) Under 40 years
- 4) Good working Knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No 11

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

**1. PERIOD**

September 17, 1981 to October 24, 1981 (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**



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

1. PERIOD

June 4, 1981 to July 3, 1981 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior police officers who are in charge of investigations of offenses of international nature and who belong to the central police organization.
- 2) Officers in charge of the Interpol NCD's in participating countries.
- 3) Good working Knowledge of English.

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

**PREVENTION OF OFFENCES (SENIOR COURSE)** (犯罪防止 (上級))

**1. PERIOD**

February 18, 1982 to March 22, 1982 (1.5-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**

**JUVENILE JUSTICE ADMINISTRATION** (矯正保護)

1. PERIOD

May 7, 1981 to July 13, 1981 (2.5-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 juvenile justice administration, and who have at least eight-year practical experience in their field or five-year practical experience plus a university degree or its equivalent
- 2) Have a sufficient command of spoken and written English
- 3) Under fifty (50) years of age.
- 4) in good health.

4. DESCRIPTION OF TRAINING

- 1) General trends in juvenile delinquency
- 2) Juvenile justice administration
- 3) Coordination of activities among the agencies concerned within and outside of juvenile justice system
- 4) Drug-abuse problems

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**

January 28, 1982 to March 14, 1982 (1.5-month)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) Qualified in their respective field
- 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 17, 1981 to November 8, 1981 (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. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Outline of the industrial property system
  - International treaties
  - Patent law
  - Utility model law
  - Criteria for examining applications for patent or utility model
  - Patent information
  - Relation between technology transfer and the industrial property system
  - Design law
  - Trademark law
- 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**

February 10, 1982 to February 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**

Patent Office, Ministry of International Trade and Industry,  
Japan Institute of Invention and Innovation

**6. REMARKS**

## **2. AGRICULTURE**

**AGRICULTURAL STATISTICS** (農林水産統計)

**1. PERIOD**

August 6, 1981 to October 31, 1981 (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 21, 1981 to July 3, 1981 (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 11, 1981 to July 31, 1981 (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 (農薬利用)

1. PERIOD

January 7, 1982 to May 30, 1982 (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

4. DESCRIPTION OF TRAINING

- 1) Orientation on Specific Subject
- 2) Japanese Language
- 3) Training on Specific Subject Matters
  - ① Lecture
  - ② Experiment
  - ③ Field Practice
  - ④ Observation Tours and Visits
  - ⑤ 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

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

**1. PERIOD**

June 18, 1981 to August 28, 1981 (2.5-month)

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

Eight (8)

**3. QUALIFICATIDNS**

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

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Outline of 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**

Ministry of Agriculture, Forestry and Fisheries  
The Rural Home and Family Living Improvement Study Association

**6. REMARKS**

IRRIGATION AND DRAINAGE (灌溉排水)

1. PERIOD

March 1, 1982 to November 30, 1982 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 25 and 35 years of age (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 (農地水資開発)

1. PERIOD

July 9, 1981 to September 13, 1981 (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

March 1, 1982 to November 30, 1982 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve(12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) 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

Tsukuha International Agricultural Training Centre, JICA

6. REMARKS

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

1. PERIOD

June 11, 1981 to December 21, 1981(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



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

1. PERIOD

May 28, 1981 to December 15, 1981 (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, Kohe University

6. REMARKS

**RICE CULTIVATION** (稻 栽 培)

**1. PERIOD**

March 1, 1982 to November 30, 1982 (9-month)

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

Twelve (12)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

- 1) 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 28, 1981 to November 30, 1981 (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

March 1, 1982 to November 30, 1982 (9-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

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

1. PERIOD

January 14, 1982 to June 15, 1982 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONNS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Center, JICA
- 2) Public Research Institutions
- 3) Food Processing Factories (Food Manufacturing Plants)

6. REMARKS

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

ARTIFICIAL INSEMINATION FOR CATTLE (家畜人工受精)

1. PERIOD

April 23, 1981 to October 22, 1981 (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 21, 1981 to November 20, 1981 (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 7, 1981 to September 27, 1981 (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

(b)

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

1. PERIOD

August 20, 1981 to November 19, 1981 (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

WOOD INDUSTRIAL MACHINERY (木材工業機械)

1. PERIOD

May 7, 1981 to September 27, 1981 (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, small 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 2, 1981 to December 18, 1981 (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 2, 1981 to December 18, 1981 (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 14, 1982 to June 16, 1982 (5.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures 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 14, 1982 to June 16, 1982 (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**

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

CONSTRUCTION ENGINEERING (建設施工)

1. PERIOD

September 10, 1981 to December 12, 1981 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten(10)

3. QUALIFICATIONS

- 1) University or college graduates, or equivalent
- 2) Occupational experience of more than 5 years
- 3) Good working knowledge of English
- 4) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Construction management
  - Construction cost
  - Soil mechanics
  - Rock engineering
  - Technical inspection
  - Construction engineering
  - Construction machinery
- 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

CONSTRUCTION ADMINISTRATION (SEMINAR) (建設行政セミナー)

1. PERIOD

October 1, 1981 to November 16, 1981 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten(10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) More than 8 years practical experience in central or local governments.
- 3) Under 45 years of age.

4. DESCRIPTION OF TRAINING

- 1) General Orientation on Japan
- 2) Lectures
  - Outline of Earth Structures
  - Outline of Foundation for 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) Discussion with the guidance of Japanese lectures
  - Soil Improvement Planning, Foundation Design, Project Feasibility, etc.
- 4) Practice
  - Soil Survey Method
  - Soil Test Method
  - Foundation Design
  - Economic and Natural Assessment for Construction Planning
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Transport

6. REMARKS

MAINTENANCE OF CONSTRUCTION MACHINERY (建設機械整備)

1. PERIOD

May 7, 1981 to August 3, 1981 (3-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) Under 40 years of age
- 5) 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) Osaka International Training Centre, JICA

6. REMARKS

**SURVEYING AND MAPPING (PHOTOGRAMMETRY)** (測量技術)

**1. PERIOD**

June 11, 1981 to December 11, 1981 (6-month)

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

Ten(10)

**3. QUALIFICATIONS**

- 1) Knowledge of mathematics, physics and chemistry of senior high school graduate level
- 2) Present or future engagement in surveying and mapping
- 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, mapping and printing in Japan
  - Outline of photogrammetry and cadastral survey
  - Introduction to Higher Geodesy
- 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**

October 8, 1981 to November 30, 1981 (2-month)

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

Fifteen(15)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 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

**6. REMARKS**

**BRIDGE ENGINEERING** (橋梁工学)

1. PERIOD

August 20, 1981 to November 7, 1981 (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 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

Road Bureau, 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 15, 1981 to December 12, 1981 (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
- 4) Under 35 years of age
- 5) 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 23, 1981 to November 30, 1981 (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) 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, Runn off Calculation, etc.
  - River Improvement & Flood Forecasting group: Flood Forecasting, Design of River Facilities, etc.
  - Multi-Purpose Dam Planning or Construction group: Planning of Dam Project, Design of Dam, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

River Bureau, 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).

FLOOD LOSS PREVENTION AND MANAGEMENT (洪水防御)

1. PERIOD

July 30, 1981 to September 25, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates
- 2) Specialized in civil engineering or meteorology
- 3) More than 3years experience in river administration
- 4) Under 35years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Presentation of country report on pilot rivers and discussions
- 2) Lectures
  - measures for flood loss prevention
  - flood risk mapping
  - flood forecasting
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Tsukuba International Centre, JICA
- 2) Public Works Research Institute, Ministry of Construction

6. REMARKS

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

1. PERIOD

October 1, 1981 to December 15, 1981 (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

July 8, 1981 to November 16, 1981 (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 20, 1981 to October 31, 1981 (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 40 years of age.
- 4) Good working knowledge of English.

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

HOUSING (住宅建設)

1. PERIOD

October 29, 1981 to December 20, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Middle class officers in charge of housing
- 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
  - Method of comprehensive planning of residential sites
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

SEISMOLOGY AND EARTHQUAKE ENGINEERING (地震工学)

1. PERIOD

September 3, 1981 to August 19, 1982 (11.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty-one (21)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS



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

**1. PERIOD**

October 1, 1981 to October 31, 1981 (1-month)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) Preferably ex-participants in Group Training Course in Seismology and Earthquake Engineering from 1961 to 1966, or their equivalent
- 2) Engaged in the field of Seismology and Earthquake Engineering more than 10years
- 3) More than 35years of age
- 4) Having a sufficient command of spoken and written English
- 5) Good health

**4. DESCRIPTION OF TRAINING**

- 1) Orientation at JICA
- 2) Opening Ceremony
- 3) Presentation of Reports and Discussion
- 4) Lectures
- 5) Observation Trip to Kansai District
- 6) Closing Ceremony

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

**BUILDING ENGINEERING** (建築技術)

1. PERIOD

March 4, 1982 to April 23, 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) 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
  - Building administration in Japan
  - Construction works in the public sector
  - Construction works in the private sector
  - Research works and education
  - Building structure
  - Building planning
  - Building construction engineering
  - Others
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction  
Tsukuba International Centre, JICA

6. REMARKS

## **7. PUBLIC UTILITY WORKS**

ELECTRIC POWER MANAGEMENT (電気事業経営)

1. PERIOD

October 8, 1981 to December 5, 1981 (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 7, 1981 to July 25, 1981 (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) Public Utilities Dept., Agency of National Resources & Energy, 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 7, 1981 to July 25, 1981 (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 20, 1981 to November 7, 1981 (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) Public Utilities Dept., Agency of Natural Resources and Energy, Ministry of International Trade and Industry
- 2) Overseas Electric Industry Survey Institute Inc.

**6. REMARKS**

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

1. PERIOD

September 24, 1981 to November 21, 1981 (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

Overseas Electrical Industry Survey Institute, Inc.  
Tokyo Electric Power Co., Inc.

6. REMARKS



**GEOTHERMAL ENERGY** (地熱エネルギー)

1. PERIOD

September 3, 1981 to November 26, 1981 (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
  - Kyushu University
  - Kyushu Electric Power Company, Inc.

5. FACILITIES AND INSTITUTIONS

Kyushu University

6. REMARKS

WATER WORKS ENGINEERING (上水道施設)

1. PERIOD

June 18, 1981 to September 18, 1981 (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 10, 1981 to December 14, 1981 (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 13, 1981 to November 11, 1981 (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 14, 1981 to December 17, 1981 (7.5-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 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, granitational, 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 20, 1981 to December 19, 1981 (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 28, 1982 to April 27, 1982 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates who have basic knowledge of mine safety or the equivalent.
- 2) Occupational experience of more than 3 years
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

- 1) National Reseach 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

October 1, 1981 to July 2, 1982 (10-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 2 years*
- 4) *Between 27 and 38 years of age*
- 5) *Good workind 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 13, 1981 to March 27, 1982 (8-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 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) Government Industrial Research Institute, Nagoya
- 2) Industrial Research Institute, Aichi Prefecture
- 3) Metal Industries Institute, Mie Prefecture
- 4) Nagoya Municipal Industrial Research Institute

**6. REMARKS**

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

**1. PERIOD**

April 9, 1981 to September 27, 1981 (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 13, 1981 to December 2, 1981 (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 one year 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

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- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Nippon Steel Corporation

**6. REMARKS**

HEAT TREATMENT TECHNOLOGY (熱処理技術)

1. PERIOD

January 21, 1982 to July 2, 1982 (5.5-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) Qualified in the respective fields
- 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

Nagoya Municipal Industrial Research Institute

6. REMARKS

**TOOLING AND PRODUCTION FACILITY  
PRACTICAL ENGINEERING**

(治工具生産技術)

**1. PERIOD**

October 1, 1981 to January 29, 1982 (4-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 25, 1981 to January 29, 1982 (7.5-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 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 21, 1982 to May 15, 1982 (4-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

**6. REMARKS**

SHIPBUILDING (船舶技術)

1. PERIOD

January 7, 1982 to December 24, 1982 (12-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 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
  - Shipyards 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

October 1, 1981 to July 2, 1982 (10-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 controlPractincc
  - 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

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

**1. PERIOD**

October 1, 1981 to November 7, 1981 (1.5-month)

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

Ten (10)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

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

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

REFRACTORY MANUFACTURING TECHNOLOGY (耐火物製造技術)

1. PERIOD

September 24, 1981 to March 27, 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) 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 Nino Yogyo Co., Ltd

6. REMARKS

CERAMIC GLAZE AND DECORATION (釉薬着彩技術)

1. PERIOD

April 2, 1981 to September 27, 1981 (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) *Between 26 and 45 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
  - Low temperature glaze
  - High temperature glaze
  - Decoration techniques
- 2) *Observation tours*

5. FACILITIES AND INSTITUTIONS

- 1) *Nagoya International Training Centre, JICA*
- 2) *Tajimi-city Ceramic Design Research Centre*
- 3) *Government Industrial Research Institute, Nagoya*

6. REMARKS

TILE MANUFACTURING TECHNOLOGY (タイル製造技術)

1. PERIOD

August 13, 1981 to March 27, 1982 (8-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS



PLASTICS (プラスチック)

1. PERIOD

October 1, 1981 to February 3, 1982 (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 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 28, 1982 to March 12, 1982 (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**

Tokyo International Centre (TIC), JICA

**6. REMARKS**

ENZYME TECHNOLOGY (酵素工学)

1. PERIOD

April 2, 1981 to October 1, 1981 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Master's or Doctor's degree in chemistry, biochemistry, agricultural chemistry, food chemistry 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 11, 1981 to December 10, 1981 (6-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 3, 1981 to November 7, 1981 (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

August 20, 1981 to November 14, 1981 (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 7, 1982 to March 7, 1982 (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

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

6. REMARKS



TEXTILE TECHNOLOGY (纖維工学)

1. PERIOD

January 11, 1982 to March 27, 1982 (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) 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

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

**1. PERIOD**

April 2, 1981 to September 28, 1981 (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**

WEAVING ENGINEERING (織布技術)

1. PERIOD

April 2, 1981 to September 27, 1981 (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
  - 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) Mikawa Textile Research Centre
- 2) Owari Textile Research Centre
- 3) Nagoya International Training Centre, JICA

6. REMARKS

GLASS TECHNOLOGY (ガラス工学)

1. PERIOD

February 4, 1982 to April 26, 1982 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Occupational experience of more than 3 years
- 3) Age between 25 and 35 years
- 4) 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 3, 1981 to November 3, 1981 (2-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 40 years of age
- 5) Good working knowledges of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - International shipping and Japanese shipping
  - Future and innovation of maritime transportation
  - Containerization, other unitarizations and related conventions
  - Present situation of Japanese shipbuilding industry
  - Shipping conference and management of liner operation
  - Education, training and management for seamen
  - Bill of lading, charter party, marine insurance, etc.
  - 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 15, 1981 to November 21, 1981 (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

May 20, 1981 to July 19, 1981 (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 50 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

Bureau of Ports and Harbours, Ministry of Transport

6. REMARKS



PORTS AND HARBOURS ENGINEERING (SENIOR COURSE) (港 湾 (上級))

1. PERIOD

November 23, 1981 to December 24, 1981 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Persons who have ever participated in Seminar in Ports & Harbours or Port & Harbour Engineering Course in Japan
- 2) Qualified in their respective fields
- 3) Civil engineers presently engaged in harbour engineering works
- 4) Above 35 and under 50 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Planning of ports and harbours container terminal
  - Caisson design
  - PHRI (Port and Harbour Research Inst.)  
"Wave" or "Soil".
- 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 27, 1981 to October 30, 1981 (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
  - Theory and treatment of navigation aids (lighted beacon, buoys, radio beacon, etc.)
  - Treatment of wave activated generators, air wet batteries, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Maritime Safety Agency

6. REMARKS

**HYDROGRAPHIC SURVEY (水路測量)**

**1. PERIOD**

May 7, 1981 to November 8, 1981 (6-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) Coastling                              | 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 5, 1981 to March 15, 1982 (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 3, 1981 to November 2, 1981 (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 AND HIGH-SPEED OPERATION

(鉄道電化高速運転)

1. PERIOD

October 15, 1981 to December 18, 1981 (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 11, 1981 to September 14, 1981 (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 28, 1982 to June 4, 1982 (4.5-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 (鉄道車輛)

1. PERIOD

July 16, 1981 to October 26, 1981 (3.5-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 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

SUBWAY ENGINEERING (地下鉄道工学)

1. PERIOD

September 5, 1981 to November 2, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Technical college 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
  - Construction planning of subway
  - Design of subway structure
  - Construction method of subway
  - Management of construction work
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Teito Rapid Transit Authority
- 3) Traffic Bureau, Osaka City

6. REMARKS

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

1. PERIOD

July 16, 1981 to September 8, 1981 (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 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 24, 1981 to November 2, 1981 (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 14, 1981 to July 14, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 3 years
- 3) presently engaged in tourism promotion activities in public tourist organizations
- 4) between 25 and 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

October 1, 1981 to January 29, 1982 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six(6)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Radar Operation
  - Radar Maintenance
  - Radar-related Meteorology
- 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**

No 111

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

1. PERIOD

March 1, 1982 to March 14, 1982 (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, 1981 to October 24, 1981 (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 7, 1982 to March 20, 1982 (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 30, 1981 to July 31, 1981 (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 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 27, 1981 to November 8, 1981 (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 29, 1981 to February 14, 1982 (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 4, 1981 to September 13, 1981 (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 27, 1981 to November 16, 1981 (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 (I)**

(マイクロウェーブ通信技術 (I))

1. PERIOD

July 2, 1981 to October 11, 1981 (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



**MICROWAVE COMMUNICATION ENGINEERING (II)**

(マイクロウェーブ通信技術 (II))

1. PERIOD

August 27, 1981 to December 13, 1981 (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
  - 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

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

1. PERIOD

January 7, 1982 to March 22, 1982 (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 30, 1981 to August 9, 1981 (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 6, 1981 to October 1, 1981 (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 30, 1981 to July 16, 1981 (3-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**

(國際電話交換技術)

1. PERIOD

January 7, 1982 to March 27, 1982 (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 2, 1981 to July 12, 1981 (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

August 13, 1981 to November 22, 1981 (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 15, 1981 to November 28, 1981 (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 (テレビ放送管理)

1. PERIOD

May 7, 1981 to June 18, 1981 (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 or running television broadcasting is indispensable to managing staffs, the study programme involves major subjects on television broadcasting management such as its system, engineering, finance and programme planning.

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

It is desirable that those who intend to study production method of television programme or television engineering should apply for "Educational Television Programme Course" or the "Television Engineering Course" which are also organized by the Government of Japan.

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

EDUCATIONAL TELEVISION PROGRAMME (教育テレビ番組)

1. PERIOD

July 16, 1981 to October 5, 1981 (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) Ministry of Posts and Telecommunications
- 2) NHK Central Training Institute
- 3) Other NHK facilities

6. REMARKS

COLOR TELEVISION ENGINEERING (テレビ放送技術)

1. PERIOD

July 2, 1981 to October 5, 1981 (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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

**TELEVISION BROADCASTING ENGINEERING FOR MIDDLE AND NEAR EASTERN COUNTRIES**

(中近東テレビ放送技術)

**1. PERIOD**

January 7, 1982 to March 29, 1982 (3-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 2, 1981 to September 14, 1981 (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 8, 1981 to April 29, 1981 (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

September 30, 1981 to October 21, 1981 (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 3, 1981 to June 24, 1981 (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 12, 1981 to September 2, 1981 (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 2, 1981 to March 22, 1982 (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 20, 1981 to December 21, 1981 (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** (早期胃ガン診断)

1. PERIOD

October 22, 1981 to December 21, 1981 (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, 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(SEMINAR)** (腎不全セミナー)

**1. PERIOD**

October 4, 1981 to November 2, 1981 (1-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 10, 1981 to June 15, 1982 (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 School of Medicine

6. REMARKS



**LABORATORY WORKS FOR TUBERCULOSIS CONTROL**

(結核対策細菌技術指導者)

1. PERIOD

October 22, 1981 to February 22, 1982 (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 programmes
  - Role of laboratory work in tuberculosis control programmes
  - 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

6. REMARKS

TUBERCULOSIS CONTROL (結核対策)

1. PERIOD

June 11, 1981 to October 19, 1981 (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 5, 1981 to June 8, 1981 (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 programme
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association

6. REMARKS

PROSTHETIC AND ORTHOTIC TECHNICIAN (補装具製作技術)

1. PERIOD

August 6, 1981 to October 21, 1981 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) Occupational experience of more than than 5 years
- 3) Under 50 years of age
- 4) Good working knowledge of English or Japanese
- 5) No experience of studying abroad on the subject

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Functional anatomy
  - Disability and indication
  - Materials
  - Biomechanics
  - A/K and B/K prosthesis
  - Upper and lower extremities
  - Milwaukee brace
  - Plastic brace
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Rehabilitation Centre for the Disabled
- 2) Tokyo International Centre (TIC), JICA

6. REMARKS

**MEDICAL RADIOGRAPHY** (医療放射線技術)

1. PERIOD

December 3, 1981 to June 30, 1982 (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

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

1. PERIOD

April 30, 1981 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 22, 1982 to February 12, 1982 (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 10, 1981 to March 9, 1982 (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 14, 1981 to July 13, 1981 (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 17, 1981 to December 15, 1981 (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) Food Inspection Organizations  
Japan Frozen Food Inspection Corporation and others

**6. REMARKS**

**PUBLIC ADMINISTRATION OFFICERS IN CHARGE OF DISABLED PERSONS (SEMINAR)**  
(心身障害者行政セミナー)

1. PERIOD

October 1, 1981 to October 31, 1981 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Be middle or managing staff in charge of public administration for disabled persons at the governmental or related public organizations or institutions
- 2) Have more than 3 years of working experience in principle
- 3) Be between twenty five (25) and forty five (45) years of age in principle
- 4) Good working Knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures  
-Experience, current situation and policy of Japan in the field of problems of disabled persons such as job creation, skill development and training for disabled persons and promotion of employment of disabled persons because of industrial accidents
- 2) Comparative study and discussion  
-Administration for disabled persons both in participating countries and Japan
- 3) Observation tours
- 4) Observation of International skill Contests for the Disabled (International Abilitypic)

5. FACILITIES AND INSTITUTIONS

Ministry of Labour

6. REMARKS

## **15. MANAGEMENT TECHNOLOGY**

MEASURES FOR SMALLER INDUSTRY (中小企業対策)

1. PERIOD

January 7, 1982 to March 30, 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 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 methods 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

April 9, 1981 to August 9, 1981 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Senior administrative officials in their respective fields
- 3) Occupational experience of more than 5 years
- 4) Between 27 and 45 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
  - Local traditional industries (localized industries)
  - Smaller enterprises and economic development in developing countries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nagoya International Training Centre, JICA  
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**

August 13, 1981 to March 27, 1982 (8-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 27, 1981 to December 11, 1981 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty (30)

3. QUALIFICATIONS

- 1) University graduates
- 2) Presently engaged in tare, 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) Ministry of Finance
- 2) National Tax Administration
- 3) Hachioji International Training Centre, JICA

6. REMARKS

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

1. PERIOD

September 30, 1981 to October 17, 1981 (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) Income Tax
  - b) Tax Audit

5. FACILITIES AND INSTITUTIONS

National Tax Administration

6. REMARKS

CUSTOMS TECHNIQUE (税関行政)

1. PERIOD

August 20, 1981 to October 19, 1981 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

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  
-The organizations and functions of customs administration
- 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, 1981 to July 5, 1981 (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

5. FACILITIES AND INSTITUTIONS

World Trade Centre of Japan

6. REMARKS

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

1. PERIOD

September 24, 1981 to November 22, 1981 (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

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 27, 1981 to December 15, 1981 (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 15, 1981 to November 8, 1981 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Senior officers in charge of matters directly to OECF loans
- 2) University graduates or equivalent
- 3) Good working knowledge of English

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



INDUSTRIAL HEALTH (SEMINAR) (労働衛生行政セミナー)

1. PERIOD

October 1, 1981 to November 13, 1981 (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

September 24, 1981 to November 9, 1981 (2-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 3 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 29, 1981 to December 16, 1981 (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) Over 30 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 2, 1981 to August 14, 1981 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently engaged in labour statistics administration
- 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,
- 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 23, 1981 to June 22, 1981 (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**

No 169

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

**1. PERIOD**

September 3, 1981 to October 17, 1981 (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 counter measures against Unemployment and to Ability Development in Japan
  - Countermeasures to workers'welfare in Japan
  - Observation of various public institutions and organizations
- 2) Observation trip

**5. FACILITIES AND INSTITUTIONS**

Tokyo International Centre, JICA

**6. REMARKS**

HIGHLY SKILLED MACHINIST (上級技能者訓練)

1. PERIOD

April 2, 1981 to March 22, 1982 (12-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Highschool 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

Higashi-Yodogawa Advanced Vocational Training Centre, Osaka Prefectural Government

6. REMARKS

No 171

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

1. PERIOD

August 27, 1981 to October 26, 1981 (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 ADMINISTRATION (SEMINAR) (職業訓練セミナー (II))

1. PERIOD

February 18, 1982 to March 30, 1982 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Presently engaged in the Vocational Training Administration
- 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

Hachioji International Training Centre, JICA

6. REMARKS

No 173-1

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

**1. PERIOD**

May 14, 1981 to March 30, 1982 (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**

No 173-2

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

1. PERIOD

May 14, 1981 to March 30, 1982 (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 173-3

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

**1. PERIOD**

May 14, 1981 to March 30, 1982 (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**

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

1. PERIOD

May 14, 1981 to March 30, 1982 (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 14, 1981 to March 30, 1982 (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 173-6

**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 14, 1981 to March 30, 1982 (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**

OFFSET PRINTING (オフセット印刷)

1. PERIOD

September 17, 1981 to December 11, 1981 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) High school graduates at least
- 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
  - Line work
  - Screening
  - Main exposure
  - Flash exposure
  - Contact Printing and plate making
  - Color reproduction
  - Indirect Screening
  - Direct Screening method
  - Color separation
  - Principle of mask
  - Mask making for direct screening

5. FACILITIES AND INSTITUTIONS

Japan printing Association  
Japan Association of Graphic Arts Technology (JAGAT)

6. REMARKS



DIE MAKING AND MACHINE TOOL (金型工作技術)

1. PERIOD

April 2, 1981 to March 22, 1982 (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 5 years
- 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 (including 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 Centre, JICA

6. REMARKS

MECANIQUE AUTOMOBILE A MOTEUR DIESEL (バス,トラック整備技術)

1. PERIOD

January 21, 1982 to March 27, 1982 (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
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of French

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training  
-Diesel engine, Injection pump, Clutch and Transmission case, etc.
- 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

No 177

**PACKING ENGINEERING** (包装技術)

**1. PERIOD**

January 20, 1982 to March 22, 1982 (2-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 packing engineering
  - Packing materials and containers
  - Packing technology and system for various products
  - National standards
  - Testing and evaluation methods for packing materials and packages
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

Industrial Products Research Institute Japan Packaging Institute

**6. REMARKS**

## 18. NUCLEONICS

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

**1. PERIOD**

August 13, 1981 to August 31, 1981 (1-month)

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

Twelve (12)

**3. QUALIFICATIONS**

- 1) Senior scientists, medical doctor or senior government officials related to national and international programmes in this field
- 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
  - Current trends and achievements in radiobiology
  - Application of radioisotopes in endocrinology
  - Current technique and development in in vivo and in vitro RI diagnosis
  - Diagnosis of cancer by endoscope, X-rays and ultra sound, etc.
- 2) Observtion trips

**5. FACILITIES AND INSTITUTIONS**

- 1) National Institute of Radiological Sciences
- 2) Radiation Effects Association

**6. REMARKS**

## 19. INFORMATION SCIENCE

COMPUTER TECHNOLOGY (コンピューター技術)

1. PERIOD

September 17, 1981 to December 17, 1981 (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

May 7, 1981 to July 4, 1981 (2-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

- 1) Tokyo International Centre (TIC), JICA
  
- 2) Remote Sensing Technology Centre of Japan (RESTEC)

6. REMARKS



ADVANCED COMPUTER TECHNOLOGY (SOFTWARE) (情報処理〔上級〕)

1. PERIOD

January 21, 1982 to March 27, 1982 (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

**GOVERNMENT AUDITING (AUDIT OF COMPUTER SYSTEMS) (SEMINAR)**

(コンピューター会計検査セミナー)

**1. PERIOD**

June 23, 1981 to July 22, 1981 (1-month)

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

Fifteen(15)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

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

**5. FACILITIES AND INSTITUTIONS**

Board of Audit

**6. REMARKS**

JICA