

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

1977

Japan International Cooperation Agency
Tokyo, Japan

国際協力事業団

受入 月日 84. 5. 24	000
登録No. 07489	36
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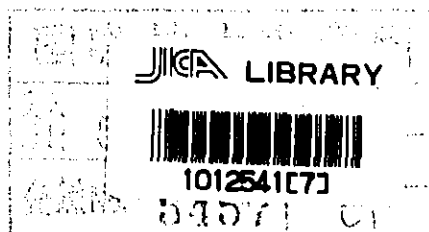
April 1977

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 programs for the fiscal year of 1977.

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



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1. DEVELOPMENT PLAN

SERIAL NUMBER 7

TREATMENT OF OFFENDERS (犯罪防止)

1. PERIOD

April 7, 1977 to July 13, 1977 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates
- 2) Persons who hold relatively senior positions in a central bureau or department or field agency concerned with the correctional treatment of delinquents and offenders
- 3) Occupational experience of more than five (5) years
- 4) Under fifty (50) years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Appropriate treatment measures for re-integrating offenders into community
 - Comparative study of treatment process of offenders
 - Group workshop on the topics selected by participants
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 22

NATIONAL GOVERNMENT ADMINISTRATION (国家行政)

1. PERIOD

May 5, 1977 to July 27, 1977 (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) Between 30 and 45 years of age
- 4) 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

SERIAL NUMBER 28

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

1. PERIOD

May 12, 1977 to June 10, 1977 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) Government officials in charge of economic development policies
- 2) Under forty (40) 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
 - International cooperation and development
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- Economic Planning Agency
- Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 35

CRIMINAL INVESTIGATION (国際捜査セミナー)

1. PERIOD

June 9, 1977 to July 15, 1977 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) Senior police officer in charge of investigations against offenses of international nature, especially who is in charge of ICPO-NCB is preferable
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Fight against international crimes in participating countries
 - Promotion of international investigative cooperation
 - Use of computers in criminal investigation
 - Police communication
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

SERIAL NUMBER 80

ADMINISTRATION OF CRIMINAL JUSTICE (刑事司法行政)

1. PERIOD

September 1, 1977 to December 7, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Senior police officer in charge of investigations against offenses of international nature
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Criminal police of Japan
 - Laws and regulations on criminal matters in Japan and participating countries
 - Identification system of Japan
 - Interpol and international mutual assistance in criminal matters
 - Promotion of international investigative cooperation
 - Police communications of Japan, etc.

5. FACILITIES AND INSTITUTIONS

Criminal Investigation Bureau, National Police Agency

6. REMARKS

SERIAL NUMBER 85

PREVENTION OF NARCOTIC OFFENCES (SEMINAR)

(麻薬犯罪取締セミナー)

1. PERIOD

September 15, 1977 to October 21, 1977 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) Staff members in charge of narcotic offences at central police organization or equivalent government organization
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Circumstances which have brought about decrease in narcotic offences in Japan
 - Countermeasures against addicts
 - Identification of narcotic drugs
- 2) Presentation of country reports by participants
- 3) Case study of investigation techniques
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Police Agency
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 87

TECHNICAL MANAGEMENT OF POLLUTION CONTROL (環境技術)

1. PERIOD

September 15, 1977 to October 25, 1977 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or those who possess equivalent technical qualification in the field
- 2) Junior technical officials responsible for water control administration, either central or local, in governmental organization
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Historical background of water pollution control in Japan
 - Water pollution control policy in Japan
 - Waste water treatment
 - Assessment and forecast of water quality
 - Water contamination and ecosystems
 - Water quality monitoring and analysis of water quality
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Environmental Agency

6. REMARKS

SERIAL NUMBER 88

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

1. PERIOD

September 22, 1977 to December 4, 1977 (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) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Financial planning of development projects, financial and economic analysis
 - Current situation of development, study of industrial policy
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The International Development Center of Japan

6. REMARKS

SERIAL NUMBER 89

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

1. PERIOD

September 22, 1977 to March 31, 1978 (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
 - Planning and evaluation of public utility projects
 - Development strategies of international organization
 - Japanese economic growth
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

-The International Development Center of Japan

6. REMARKS

SERIAL NUMBER 90

STATISTICS (統計)

1. PERIOD

September 22, 1977 to March 31, 1978 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty (30)

3. QUALIFICATIONS

- 1) University graduates or equivalent with the knowledge of economics and mathematics
- 2) Those who hold, or are capable of assuming, a position of responsibility in a government statistical office
- 3) Preferably between twenty-five (25) and thirty-five (35) years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Statistical methods
 - Economic accounting statistics
 - Demographic and social statistics
 - Economic statistics
 - Agricultural statistics
- 2) Observation of field operations of statistical surveys

5. FACILITIES AND INSTITUTIONS

Asian Statistical Institute

6. REMARKS

SERIAL NUMBER 108

FIRE SERVICE ADMINISTRATION (消防行政)

1. PERIOD

October 13, 1977 to December 12, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Bachelor in law, politics, administration
- 2) Three years experience in the field of fire service
- 3) Under forty (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

5. FACILITIES AND INSTITUTIONS

- Fire Defense College and Fire Defense Laboratory
- Tokyo Fire Department
- Fire Defense Agency, Ministry of Home Affairs

6. REMARKS

SERIAL NUMBER 131

TREATMENT OF OFFENDERS (SENIOR COURSE) 犯罪防止 (上級)

1. PERIOD

February 9, 1978 to March 28, 1978 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Judges of the highest court, chief judges of the lower court or judges or other officials who are commissioned to the equivalent of those judgeship
- 2) Under 55 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Individual presentation and discussion
 - Evaluation of principal objectives of a sentencing policy and of methods towards the fullest possible achievement of those objectives
 - Development of more appropriate agency to determine the sentence or to share such determination
 - Identification of the necessity for reforming current types of disposition
 - Examination of possible infringement of fundamental rights guaranteed to offenders
 - Improvements in special sentencing measures for juveniles, drug addicts and mentally discarded

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 132

ADMINISTRATION OF POLLUTION CONTROL (環境行政)

1. PERIOD

February 9, 1978 to March 19, 1978 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Senior technical or administrative officials for environmental administration, either central or local, in governmental organization
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussion
 - 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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Environment Agency

6. REMARKS

2. AGRICULTURE

SERIAL NUMBER 3

AGRICULTURAL EXTENSION SERVICE (農業普及)

1. PERIOD

April 7, 1977 to July 4, 1977 (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 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, management, extension and education by the local government
 - Visit to extension stations and experimental research institutions

5. FACILITIES AND INSTITUTIONS

Extension and Education Division, Extension Department; Agricultural Production Bureau,
Ministry of Agriculture and Forestry

6. REMARKS

SERIAL NUMBER 10

AGRICULTURAL MACHINERY (REFRESHER COURSE)

(農業機械)
再研修

1. PERIOD

April 14, 1977 to June 12, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Ex-participants who have participated either in the group training course of,
 - (a) Agricultural Machinery Maintenance and Repair conducted by Osaka International Training Center between the years 1967 and 1971, or
 - (b) Farm Machinery Utilization conducted by Uchihara International Agricultural Training Center between 1964 and 1971
- 2) Engaged or will be engaged in planning of farm mechanization, production and diffusion of farm machinery, maintenance and repair of farm machinery, man-power training for agricultural machinery administration

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - The structure, the function, the handling, and the maintenance and repair of major rice production agricultural machinery
 - The standard rice cultivation system for farm machinery
 - Farm mechanization plan and the organization of cooperative farm machinery utilization
 - The safety measures and inspection of the machinery and agricultural machinery administration
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Osaka International Training Center, JICA
- 2) Uchihara International Agricultural Training Center, JICA

6. REMARKS

SERIAL NUMBER 24

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

1. PERIOD

May 12, 1977 to November 23, 1977 (6.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Agriculture in Japan and its topics
 - Rice growing technique in Japan
 - Administration and research organization for plant protection in Japan
 - Major diseases and insect pests in rice growing
 - Agricultural extension system in Japan
- 2) Observation tours
 - Research institute and other related organs

5. FACILITIES AND INSTITUTIONS

- 1) Hyogo Prefectural Agricultural Research Center
- 2) Kobe University, Plant Protection Research Laboratory of Agricultural Department

6. REMARKS

AGRICULTURAL MACHINERY MAINTENANCE AND REPAIR

(農業機械整備)

1. PERIOD

June 2, 1977 to December 4, 1977 (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 (Male only)
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Orientation, agricultural machinery, fundamentals of mechanical engineering, subjects related to agricultural machinery, managerial aspects in agricultural machinery
 - Disassembly and maintenance of various types of engines and tractors
- 2) Observation tours
 - Research institutes (various types of agricultural machinery, tractors and bulldozer)
 - Agricultural experiment stations, universities
 - Agricultural cooperatives

5. FACILITIES AND INSTITUTIONS

- 1) Member Plants of Japan Agricultural Machinery Manufacturers Association
- 2) Osaka International Training Center (theoretical lecture)

6. REMARKS

SERIAL NUMBER 43

AGRICULTURAL LAND AND WATER RESOURCES DEVELOPMENT

(農地水資源開発)

1. PERIOD

June 23, 1977 to August 22, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of Japan's agriculture and improvement
 - Planning criteria
 - Land improvement project
 - Design criteria
 - Management of 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 and Forestry

6. REMARKS

SERIAL NUMBER 65

AGRICULTURAL STATISTICS (農林水産統計)

1. PERIOD

August 11, 1977 to November 31, 1977 (2.5-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) 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
 - Agricultural situation and statistics in Japan
 - Method of statistical survey
 - Survey for the basic structure on agriculture
 - Survey on agricultural economics
 - Crop survey
 - Outline of horticulture survey and marketing information service
 - Utilization of computer

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 76

RICE PROCESSING (粳処理精米加工)

1. PERIOD

September 1, 1977 to December 3, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 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
 - Food situation of Japan and importance of rice
 - Production and export of agricultural machinery
 - Rice Control System
 - Activities of agricultural cooperatives
 - Characteristics of Japonica and Indica
- 2) Observation tours of machine making factory

5. FACILITIES AND INSTITUTIONS

Ministry of Agriculture and Forestry
Japan Rice Millers Association

6. REMARKS

SERIAL NUMBER 99

AGRICULTURAL COOPERATIVES (農業協同組合)

1. PERIOD

September 29, 1977 to December 20, 1977 (3-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 cooperatives in Japan
 - Practical operation of primary society
 - Studies in detail of cooperative business
 - Cooperative management and organizational problems .
 - Studies on other kinds of cooperatives
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute for the Development of Agricultural Cooperation in Asia (IDACA)

6. REMARKS

SERIAL NUMBER 134

VEGETABLE CROPS PRODUCTION (野菜生産)

1. PERIOD

February 9, 1978 to November 30, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 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 and agricultural cooperative associations and other related organs

5. FACILITIES AND INSTITUTIONS

Uchihara International Agricultural Training Centre, JICA

6. REMARKS

SERIAL NUMBER 135

IRRIGATION AND DRAINAGE (灌溉排水)

1. PERIOD

February 9, 1978 to November 30, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

Uchihara International Agricultural Training Center, JICA

6. REMARKS

SERIAL NUMBER 139

RICE CULTIVATION AND ITS EXTENSION (稲作普及)

1. PERIOD

March 2, 1978 to December 22, 1978 (9.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Orientation, Japanese lessons, agriculture in the world, rice culture in Japan, rice breeding and seed protection, soil & fertilizer, farm machinery, land improvement
 - Extension work, survey, administration
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

UCHIHARA International Agricultural Training Center, JICA

6. REMARKS

SERIAL NUMBER 140

RICE PRODUCTION MECHANIZATION (稲作機械化)

1. PERIOD

March 2, 1978 to December 22, 1978 (9.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) 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 cooperative use of farm machinery in Japan
- 2) Observation tours
 - Experimental and Research Institutes and other related organs

5. FACILITIES AND INSTITUTIONS

Uchihara International Agricultural Training Center (JICA)

6. REMARKS

3. ANIMAL INDUSTRY HUSBANDRY

SERIAL NUMBER 6

ANIMAL HEALTH RESEARCH (家畜衛生研究)

1. PERIOD

May 7, 1977 to November 11, 1977 (7-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
-Examination, prevention and treatment of bovine, swine, equine, avian and other livestock diseases
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Institute of Animal Health, Ministry of Agriculture and Forestry
- 2) Hachioji International Training Center

6. REMARKS

SERIAL NUMBER 11

POULTRY DEVELOPMENT (養 鶏)

1. PERIOD .

April 21, 1977 to October 3, 1977 (5.5-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
 - Raising and practical training
 - Hygiene and diseases
 - Feeding and management for layers and broilers
 - Breeding and improvement of strains
 - Farm management
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Okazaki National Poultry Breeding Station
- 2) Ministry of Agriculture and Forestry
- 3) Nagoya International Training Center

6. REMARKS

SERIAL NUMBER 13

ARTIFICIAL INSEMINATION FOR CATTLE (家畜人工授精)

1. PERIOD

April 28, 1977 to October 22, 1977 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - General aspect of livestock industry in Japan
 - Practice in treatment of cattle
 - Theory, practice of artificial insemination
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Fukushima National Livestock Breeding Station, Ministry of Agriculture and Forestry

6. REMARKS

4. FORESTRY

SERIAL NUMBER 84

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

1. PERIOD

September 15, 1977 to December 15, 1977 (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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
-Forestry planning, breeding, nursery practice, regeneration tree tending and watershed management of Japan
-Introduction of management and administration systems of national forests in Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Forestry Agency, Ministry of Agriculture and Forestry

6. REMARKS

SERIAL NUMBER 128

**WOOD INDUSTRIAL MACHINERY
ENGINEERING** (木材工業機械)

1. PERIOD

January 5, 1978 to March 31, 1978 (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 5 years
- 4) Over 30 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Lumber cutting and its equipment
 - Plywood processing and its equipment
 - Woodworking machineries
 - Technical development and transfer of technology in relation to roles of industrial research institutions, small business guidance centers, chambers of commerce and industry, and cooperative associations
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

5. FISHERIES

SERIAL NUMBER 1

COASTAL FISHERIES EXTENSION (沿岸漁業普及)

1. PERIOD

April 3, 1977 to February 28, 1978 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Center, JICA

6. REMARKS

SERIAL NUMBER 12

MARINE FISHERIES RESEARCH (I) (水産研究 I)

1. PERIOD

April 28, 1977 to October 29, 1977 (6-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 4 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Marine resources
 - Population dynamics and statistics on diagnosis and control of fishery resources
 - Seaweeds and plantation culture
 - Utilization, processing and preservation
 - Water pollution
 - Radioactive contamination of marine environment
 - Ocean-physical analysis of mechanism of sea current changes
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Tokai Regional Fisheries Research Laboratory, Fisheries Agency

6. REMARKS

SERIAL NUMBER 32

FISHERIES COOPERATIVES (漁業協同組合)

1. PERIOD

June 2, 1977 to December 2, 1977 (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
 - Theories, principles and management of fisheries cooperatives
 - Fisheries registration
 - Fisheries insurance system
 - Other related matters
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kanagawa International Fisheries Training Center, JICA

6. REMARKS

SERIAL NUMBER

MARINE FISHERIES RESEARCH (II) (水産研究Ⅱ)

1. PERIOD

September 15, 1977 to March 14, 1978 (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) Occupational experience of more than 4 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
-Fishing gear and methods
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Tokai Regional Fisheries Research Laboratory, Fisheries Agency

6. REMARKS

6. CONSTRUCTION AND CIVIL ENGINEERING

SERIAL NUMBER 25

CONSTRUCTION MACHINERY (建設機械)

1. PERIOD

May 12, 1977 to August 15, 1977 (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, trouble shooting 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 Center, JICA

6. REMARKS

SERIAL NUMBER 26

HYDROGRAPHIC SURVEY (水路測量)

1. PERIOD

May 12, 1977 to November 12, 1977 (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) Present employment at national hydrographic office or other related organization
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Control survey
 - Electronic survey
 - Sounding (tidal observation and correction)
 - Harbour survey
 - Ocean survey
 - Data processing of ocean survey
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

SERIAL NUMBER 36

SURVEYING AND MAPPING (MAP AND REPRODUCTION) (測量技術)

1. PERIOD

June 9, 1977 to December 10, 1977 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

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) Non-administrative personnel
- 4) Under 35 years of age
- 5) 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 geodesy, photogrammetry and cadastral survey
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Geographical Survey Institute, Ministry of Construction

6. REMARKS

SERIAL NUMBER 46

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

1. PERIOD

June 23, 1977 to July 31, 1977 (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) 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 Center
 - Kansai district

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Public Works Research Institute

6. REMARKS

SERIAL NUMBER 55

RIVER ENGINEERING (河川工学)

1. PERIOD

July 21, 1977 to November 19, 1977 (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) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - River engineering, river planning, hydraulic structure, dam and sabo planning
 - River improvement works, mechanics of bank and flood forecast
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

SERIAL NUMBER 61

PORT AND HARBOUR ENGINEERING (港 灣 工 学)

1. PERIOD

August 4, 1977 to December 19, 1977 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Planning of ports and harbours
 - Design of port and harbour facilities
 - Execution of port and harbour construction works
 - Container berth
 - Exercise, discussion and case study
- 2) 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

SERIAL NUMBER 69

CITY PLANNING (都市計画)

1. PERIOD

August 18, 1977 to October 22, 1977 (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) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Urban problems and regional planning in Japan
 - City planning system
 - Planning and development of transportation facilities
 - Planning and development of sewage system
 - Development of new residential cities and housing plan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 74

BRIDGE ENGINEERING (桥梁工学)

1. PERIOD

September 1, 1977 to November 14, 1977 (2.5-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) 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 tours

6. FACILITIES AND INSTITUTIONS

- 1) Planning Bureau and Road Bureau, Ministry of Construction
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 81

SEISMOLOGY AND EARTHQUAKE ENGINEERING (地震工学)

1. PERIOD

September 1, 1977 to August 12, 1978 (11.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Well versed in elementary mathematics (differential and integral calculus, etc.)
- 3) Under 40 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 of computer, elasticity, etc.
 - Earthquake engineering course: Earthquake resistant design of building structure, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 93

CONSTRUCTION ENGINEERING (建設施工)

1. PERIOD

September 22, 1977 to December 21, 1977 (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 5 years
- 3) Good working knowledge of English

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 Center, JICA

6. REMARKS

SERIAL NUMBER 121

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

1. PERIOD

October 27, 1977 to December 19, 1977 (2-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

7. PUBLIC UTILITY WORKS

SERIAL NUMBER 16

THERMAL-ELECTRIC POWER ENGINEERING (火力発電)

1. PERIOD

May 5, 1977 to July 23, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Power system management
 - Operation and maintenance of thermal power station
- 2) Observation tours
 - Various types of power stations
 - Heavy electrical machinery shops

5. FACILITIES AND INSTITUTIONS

- 1) *The Public Utilities Dept., Agency of National Resources & Energy,*
Ministry of International Trade and Industry
- 2) Tokyo Electric Power Company, Inc.

6. REMARKS

SERIAL NUMBER 18

HYDRO-ELECTRIC POWER ENGINEERING (水力発電)

1. PERIOD

May 5, 1977 to July 23, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or
- 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.

6. REMARKS

SERIAL NUMBER 300

WATER-WORKS ENGINEERING (上水道施設)

1. PERIOD

June 6, 1977 to September 2, 1977 (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 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
 - Design, construction and management of water works system
 - Purification plant control, leak prevention (practical training)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 54

ELECTRIC POWER DISTRIBUTION (配電技術)

1. PERIOD

July 7, 1977 to October 7, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

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 45 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) The Public Utilities Dept., Agency of Natural Resources and Energy, Ministry of International Trade and Industry
- 2) The Knsai Electric Power Co., Ltd.

6. REMARKS

SERIAL NUMBER 75

GEOHERMAL ENERGY (地熱エネルギー)

1. PERIOD

September 1, 1977 to November 20, 1977 (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 these 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

SERIAL NUMBER 77

**WATER POLLUTION CONTROL AND
SEWAGE WORKS ENGINEERING (水質汚濁下水道)**

1. PERIOD

September 1, 1977 to December 10, 1977 (3.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONNS

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

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) Ministry of Construction
- 2) Japan Sewage Works Corporation

6. REMARKS

SERIAL NUMBER 113

ELECTRIC POWER MANAGEMENT (電気事業経営)

1. PERIOD

October 20, 1977 to December 10, 1977 (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 power station
-Heavy Machinery manufacturers

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of International Trade and Industry
- 2) Chubu Electric Power Company, Ltd.

6. REMARKS

8. MINING AND MINERALS

SERIAL NUMBER 19

OFFSHORE PROSPECTING (沿岸鉱物資源)

1. PERIOD

May 5, 1977 to December 10, 1977 (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
 - Geology
 - Geophysics
 - Applied mathematics
 - Geochemical method for petroleum and mineral deposits
 - Navigation and position-finding techniques
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Tokyo International Center
- 2) Geological Survey of Japan

6. REMARKS

SERIAL NUMBER 59

MINING ENGINEERING (鉱 山)

1. PERIOD

August 4, 1977 to November 21, 1977 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Qualified in their respective fields
- 3) Healthy enough to carry out practical training in mines
- 4) Under 35 years of age
- 5) 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 | 7) Nittetsu Mining Co., Ltd. |
| 2) Dowa Mining Co., Ltd. | 8) Sumitomo Metal Mining Co., Ltd |
| 3) Furukawa Co., Ltd. | 9) Toho Zinc Co., Ltd. |
| 4) Mitsubishi Metal Corporation | |
| 5) Mitsui Mining and Smelting Co., Ltd. | |
| 6) Nippon Mining Co., Ltd. | |

6. REMARKS

SERIAL NUMBER 66

GROUND-WATER RESOURCES (地下水開発)

1. PERIOD

August 18, 1977 to December 16, 1977 (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

6. REMARKS

9. HEAVY INDUSTRY

SERIAL NUMBER 15

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

1. PERIOD

May 5, 1977 to September 30, 1977 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 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 Center, JICA

6. REMARKS

SERIAL NUMBER 56

FOUNDRY ENGINEERING (鋳 造)

1. PERIOD

July 27, 1977 to March 31, 1978 (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 sand
 - Mould properties and sand mixtures
 - Moulding processes
 - Fuels
 - Melting furnaces
- 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

SERIAL NUMBER 98

WELDING TECHNOLOGY (溶接技術)

1. PERIOD

September 29, 1977 to March 31, 1978 (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) Between 26 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 101

METAL WORKS AND ENGINEERING (金属加工)

1. PERIOD

September 29, 1977 to August 31, 1978 (11-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 working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

- 1) Government Industrial Research Institute, Nagoya
- 2) Industrial Research Institute, Aichi Prefecture
- 3) Nagoya Municipal Industrial Research Institute

6. REMARKS

SERIAL NUMBER 114

SHIPBUILDING (船舶技術)

1. PERIOD

October 20, 1977 to June 19, 1979 (20-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
 - Shipyard practices
 - Shipbuilding processes
 - Test and sea-trial
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ship Bureau, Ministry of Transport
- 2) Tokyo International Center
- 3) Overseas Shipbuilding Cooperation Center

6. REMARKS

SERIAL NUMBER 125

ELECTRICAL STEEL MAKING (電気製鋼技術)

1. PERIOD

January 5, 1978 to March 31, 1978 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 40 years of age (Under 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) Nagoya University

6. REMARKS

10. CHEMICAL INDUSTRY

SERIAL NUMBER 2

CERAMIC GLAZE AND DECORATION (釉薬着彩)

1. PERIOD

April 7, 1977 to September 30, 1977 (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) Over 26 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Overglaze color
 - Frit making
 - Low melting glaze
 - Porcelain glazes
 - Color glazes
 - Decoration technique
 - Screen printing
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 58

TILE MANUFACTURING TECHNOLOGY (タイル製造)

1. PERIOD

July 27, 1977 to March 31, 1978 (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 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 Company
- 3) Nagoya International Training Center, JICA

6. REMARKS

SERIAL NUMBER 97

REFRACTORY MANUFACTURING TECHNOLOGY (耐火物製造)

1. PERIOD

September 29, 1977 to March 31, 1978 (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) 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 Center, JICA
- 2) Technical Research Laboratory of MINO YOGYO CO., LTD.

6. REMARKS

SERIAL NUMBER 100

CERAMIC ENGINEERING (窯業技術)

1. PERIOD

September 29, 1977 to August 31, 1978 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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 and practical training
 - Refractories, kiln construction, chemical analysis
 - International analysis, quality control, transfer paper
 - Sanitary ware, insulator, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 105

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

1. PERIOD

October 6, 1977 to October 31, 1977 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Director or high ranking official in charge of ceramic development in governmental organization
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Potteries and porcelains
 - Refractories
 - Technical ceramics
 - Structural clay products
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Industrial Research Institute, Nagoya
- 2) Ministry of International Trade and Industry

6. REMARKS

SERIAL NUMBER 112

PLASTIC TECHNICS (プラスチック)

1. PERIOD

October 20, 1977 to March 21, 1978 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

11. LIGHT INDUSTRY

SERIAL NUMBER 9

COIN AND DECORATION MANUFACTURE,
METAL ANALYSIS AND PRECIOUS METAL REFINING

(貨幣及び勲章製造)

1. PERIOD

April 14, 1977 to July 30, 1977 (3.5-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

SERIAL NUMBER 41

INDUSTRIAL STANDARDIZATION (国際規格セミナー)

1. PERIOD

June 2, 1977 to June 23, 1977 (3-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates
- 2) Ex-participants who participated in the group training course of Industrial Standardization and Quality Control
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - National administration of industrial standardization
 - International and regional co-operation of standardization
 - Certification system
 - Trade and international standards
 - Quality and reliability engineering
 - Metrology and measurement standards
 - Management and development of testing laboratories
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japanese Standards Association

6. REMARKS

SERIAL NUMBER 57

TEXTILE ENGINEERING (WEAVING) (織布技術)

1. PERIOD

July 27, 1977 to March 31, 1978 (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 3 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Technical problems of textile industries in Japan
 - Chemical and synthetic yarn
 - Practices on weaving machinery
 - Chemical and physical testing of fabric
 - Weaving mill management, etc.
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

- 1) Mikawa Textile Technical Center
- 2) Owari Textile Technical Center
- 3) Nagoya International Training Center, JICA

6. REMARKS

SERIAL NUMBER 63

INDUSTRIAL DESIGN (デザイン)

1. PERIOD

August 4, 1977 to October 3, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

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 Center

6. REMARKS

SERIAL NUMBER 96

METROLOGY AND MEASUREMENT STANDARDS (計量標準)

1. PERIOD

September 29, 1977 to March 28, 1978 (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) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Essential of metrology and measurement standards
 - International system of units
 - Maintenance of measurement standards
 - Electrical and related standards
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Research Laboratory of Metrology (NRLM)
- 2) Electrotechnical Laboratory (ETL)
- 3) Japan Measuring Instruments Federation

6. REMARKS

SERIAL NUMBER 126

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

1. PERIOD

January 5, 1978 to March 30, 1978 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Presently engaged in standards engineering works at the national standards body
- 3) Qualified in their respective fields
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Essential of standardization, national and international standardization
 - Standardization in specific fields of industry in Japan
 - Sampling inspection, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of International Trade and Industry
- 2) Japanese Standards Association

6. REMARKS

12. TRANSPORTATION AND TRAFFIC

SERIAL NUMBER 5

PORTS AND HARBOURS (SEMINAR) (港務セミナー)

1. PERIOD

April 7, 1977 to July 11, 1977 (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

- 1) Bureau of Ports and Harbours, Ministry of Transport
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 23

TOURISM PROMOTION A (SEMINAR) (観光セミナー A)

1. PERIOD

May 12, 1977 to July 15, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Tourist administration
 - Tourist promotion activities
 - Tourism development method
 - Tourist industry business
 - Tourist service
 - Presentation and discussion of country report
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 40

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

1. PERIOD

June 16, 1977 to September 16, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or
- 2) Qualified in their respective fields
- 3) Present or future engagement in planning and administration of construction works
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Construction of railways in Japan
 - Maintenance of tracks and structures:
Modern method and techniques of track maintenance for higher speed and low cost,
reinforcement of track structures, inspection of track, etc.

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 47

PORTS AND HARBOURS (SENIOR COURSE) (港務上級)

1. PERIOD

July 3, 1977 to July 30, 1977 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Persons who have ever participated in Seminar in Ports & Harbours or Port & Harbour Engineering Course in Japan before 1973
- 2) Being nominated by the government
- 3) Being engaged in civil engineering
- 4) Above 35 and under 50 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and practical training
 - Planning of ports and harbours container terminal
 - Caisson design
 - PHRI (Port and Harbour Research Inst.)
"Wave"
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Bureau of Ports and Harbours, Ministry of Transport

6. REMARKS

SERIAL NUMBER 50

RAILWAY ROLLING STOCK ENGINEERING (鉄道車輛)

1. PERIOD

July 7, 1977 to October 17, 1977 (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

SERIAL NUMBER 6-60

SHIPPING BUSINESS (海運経営実務)

1. PERIOD

August 4, 1977 to October 4, 1977 (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 knowledge 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 ship building industry
 - Education, training and management for seamen
 - Shipping conference and management of liner operation
 - 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

SERIAL NUMBER 62

NAVIGATION AIDS (航路標識)

1. PERIOD

August 4, 1977 to October 8, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) High school graduates or equivalent
- 2) Administrator in the field of navigation aid 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 and air wet batteries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Maritime Safety Agency

6. REMARKS

SERIAL NUMBER 86

SUBWAY ENGINEERING (地下鉄道工学)

1. PERIOD

September 15, 1977 to November 13, 1977 (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 and practical training
 - Construction planning of subway
 - Design of subway structure
 - Construction method of subway
 - Management of construction work
 - Track and track work
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 103

METEOROLOGY (気象学)

1. PERIOD

September 29, 1977 to January 31, 1978 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

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
 - Mechanism of rainfall
 - Recent Typhoon theory
 - Introduction to numerical weather prediction
 - Forecasting of rainfall, typhoon
 - Global telecommunication system and ADESS facilities
 - Radar observation and utilization of radar data
 - Tidal theory and observation, ocean wave forecasting, coastal disaster prevention
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 107

TOURISM PROMOTION B (SEMINAR) (観光セミナー B)

1. PERIOD

October 6, 1977 to November 6, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Tourist administration
 - Tourist promotion activities
 - International congress and convention business
 - Tourism development method
 - Tourist industry business
 - Tourist service
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 110

RAILWAY ELECTRIFICATION
AND HIGH SPEED OPERATION (鉄道電化高速運転)

1. PERIOD

October 13, 1977 to December 3, 1977 (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 7 years
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 115

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

1. PERIOD

October 20, 1977 to November 25, 1977 (1-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

Bureau of Seafarers, Ministry of Transport

6. REMARKS

SERIAL NUMBER 120

AERODROME (SEMINAR) (空港セミナー)

1. PERIOD

October 27, 1977 to December 2, 1977 (1-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) Japan Airport Consultants Co., Inc.
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 123

PHYSICAL OCEANOGRAPHIC SURVEY (海洋物理調査)

1. PERIOD

November 10, 1977 to March 20, 1978 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

SERIAL NUMBER 133

RAILWAY SIGNAL ENGINEERING (鉄道信号)

1. PERIOD

February 9, 1978 to June 14, 1978 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

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

SERIAL NUMBER 20

SATELLITE COMMUNICATION ENGINEERING (I) (衛星通信 I)

1. PERIOD

May 5, 1977 to August 2, 1977 (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) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Transmission system
 - Facilities
 - Operation and maintenance
 - INTELSAT
 - Planning of earth station construction
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

SERIAL NUMBER 21

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

1. PERIOD

May 5, 1977 to July 19, 1977 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction (International communication traffic and system in Japan, future services, international data communication service, etc.
 - Services and operation of telegraph, telex and telephone
 - Other services (leased channel, AUTOMEX, DATEL, etc.)
 - Telephone and telex traffic management
 - Traffic demand forecast
 - Circuit planning
 - Accounting procedures
 - ITU and INTELSAT
 - Telecommunication statistics
 - Personnel administration and wages
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

B. REMARKS

SERIAL NUMBER 27

CARRIER TELEPHONY ENGINEERING (搬送電話)

1. PERIOD

May 12, 1977 to August 22, 1977 (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 (telecommunication administration or common carrier organizations)
- 3) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Transmission systems
 - Frequency division multiplex systems
 - Application technique
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

SERIAL NUMBER 37

TELEPHONE OUTSIDE PLANT ENGINEERING (電話線路)

1. PERIOD

June 9, 1977 to September 18, 1977 (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
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

SERIAL NUMBER 39

RADIO FREQUENCY MONITORING (電波監視)

1. PERIOD

June 16, 1977 to July 28, 1977 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
- 2) --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

SERIAL NUMBER 49

TELEVISION ENGINEERING

TELEVISION ENGINEERING (テレビ放送技術)

1. PERIOD

July 7, 1977 to October 10, 1977 (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) 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

SERIAL NUMBER 48

TELEVISION BROADCASTING MANAGEMENT (テレビ放送管理)

1. PERIOD

May 12, 1977 to June 23, 1977 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Staff higher than division-chief engaged in administrative and planning department of a television broadcasting organization
- 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 in Japan
 - Problems in broadcasting
 - Management of NHK
 - Subscriber's fee system
 - Public opinion research
 - Necessary personnel training
 - Broadcasting engineering
 - Present situation of commercial broadcasting
 - Management of commercial broadcasting
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

SERIAL NUMBER 51

MICROWAVE COMMUNICATION ENGINEERING (I)

(マイクロウェーブ I)

1. PERIOD

July 7, 1977 to October 17, 1977 (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
 - Microwave propagation
 - FM TV transmission theory
 - FM multiple telephone transmission theory
 - Antenna and feeder for microwave communications
 - Diversity reception
 - Power plant for microwave communication
 - Others
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

SERIAL NUMBER 52

RADIO BROADCASTING ENGINEERING (ラジオ放送技術)

1. PERIOD

July 21, 1977 to September 15, 1977 (2-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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of broadcasting administration
 - Allocation and technical standard of radio frequency
 - Transmission system
 - Radio frequency circuit
 - Tube circuit
 - Medium wave transmitter
 - Radio propagation
 - Practical training with Radio Transmitter
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Posts and Telecommunications
- 2) NHK Central Training Institute
- 3) Tokyo International Training Center, JICA

6. REMARKS

SERIAL NUMBER 53

EDUCATIONAL TELEVISION PROGRAMME (教育テレビ番組)

1. PERIOD

July 21, 1977 to October 10, 1977 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

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

4. DESCRIPTION OF TRAINING

- 1) Lectures, discussions and practical training
 - Planning and composition of educational TV programme
 - Educational TV programme production
 - Special effects for educational TV programme production, TV arts, 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

SERIAL NUMBER 67

INTERNATIONAL TELEX COMMUNICATION ENGINEERING

(テレックス通信)

1. PERIOD

August 18, 1977 to November 20, 1977 (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) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Telegraph transmission system
 - Basic planning of telex system
 - Electronic telex exchange
 - Telegraphy equipment
 - Maintenance management
 - Maintenance and testing of telex network
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

SERIAL NUMBER 70

SATELLITE COMMUNICATION ENGINEERING (II) (衛星通信 II)

1. PERIOD

August 18, 1977 to December 21, 1977 (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) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction
 - Transmission system
 - Facilities
 - Operation and maintenance
 - INTELSAT
 - Planning of earth station construction
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

SERIAL NUMBER 68

PROJECT NUMBER

MICROWAVE COMMUNICATION ENGINEERING(II)

(マイクロウェーブⅡ)

1. PERIOD

August 18, 1977 to November 27, 1977 (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
 - Microwave propagation
 - FM TV transmission theory
 - FM multiple telephono transmission theory
 - Antenna and feeder for microwave communications
 - Diversity reception
 - Power plant for microwave communication
 - Others
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Public Corporation (NTT)

6. REMARKS

SERIAL NUMBER 73

ELECTRONICS (電子工学)

1. PERIOD

August 25, 1977 to December 20, 1977 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Analysis techniques of materials by X-ray diffraction
 - Applications of laser light
 - Logical designs of digital equipment
 - Discharge deterioration test of plastic film materials and measurement of discharge amount
 - Thin film technology
 - Applications of ultrasonic power
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Osaka International Training Center
- 2) Osaka Prefectural Industrial Research Institute

6. REMARKS

SERIAL NUMBER 92

TELEPHONE SWITCHING ENGINEERING (電話交換)

1. PERIOD

September 22, 1977 to December 30, 1977 (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

SERIAL NUMBER 111

AN 8580011 (A4)

TELECOMMUNICATION MANAGEMENT (SEMINAR)

(電気通信幹部セミナー)

1. PERIOD

October 14, 1977 to October 29, 1977 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures 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

SERIAL NUMBER 117

TELEPHONE NETWORK PLANNING AND DESIGNING

(電話網計劃設計)

1. PERIOD

October 27, 1977 to February 13, 1978 (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
 - 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

SERIAL NUMBER 124

BROADCASTING ADMINISTRATION (SEMINAR)

(放送幹部セミナー)

1. PERIOD

November 13, 1977 to November 27, 1977 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 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

SERIAL NUMBER 130

INTERNATIONAL TELEPHONE SWITCHING ENGINEERING

(国際電話交換技術)

1. PERIOD

January 5, 1978 to March 19, 1978 (2.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - 1) Planning of telephone switching system
 - 2) Development of international telephone transit exchange
 - Crossbar type switching system
 - International subscriber dialing system
 - Stored programme controlled switching system
 - 3) System designing exercise etc.

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

SERIAL NUMBER 138

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

1. PERIOD

March 1, 1978 to March 14, 1978 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

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

Ministry of Posts and Telecommunications

6. REMARKS

SERIAL NUMBER 141

TELECOMMUNICATION DEVELOPMENT (SEMINAR)

(電気通信開発セミナー)

1. PERIOD

March 9, 1978 to March 24, 1978 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures 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

14. MEDICAL TREATMENT AND WELFARE

SERIAL NUMBER 17

EARLY GASTRIC CANCER DETECTION (早期胃ガンの診断)

1. PERIOD

May 5, 1977 to July 4, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Practically experienced for more than 5 years 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

SERIAL NUMBER 34

MICROBIAL DISEASES (微生物病研究)

1. PERIOD

June 2, 1977 to March 24, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Researcher or teacher in microbiology or public health with a prospect of promotion to a leading staff after completion of this course
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussion
 - Microbiology
 - Virology
 - Parasitology
 - Other related Subjects
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Research Institute for Microbial Diseases, Osaka University

6. REMARKS

SERIAL NUMBER 45

SOLID WASTE PROCESSING AND DISPOSAL ENGINEERING

(廃棄物処理)

1. PERIOD

June 23, 1977 to August 31, 1977 (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 3 years
- 4) Civil, sanitary or public health-engineers in charge of solid waste processing and disposal engineering
- 5) Good Working Knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Environmental pollution problems
 - Waste processing and disposal administration and public cleaning recycling
 - Waste processing and disposal system manufactures
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Waste Processing and Disposal Division of Ministry of Health and Welfare
- 2) Japan Environmental Sanitation Center

6. REMARKS

SERIAL NUMBER 38

TUBERCULOSIS CONTROL (結核対策)

1. PERIOD

September 12, 1977 to September 30, 1977 (3-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Physicians who are engaged in national tuberculosis control program, preferably having or to have a leading role in the program, excluding those who are engaged in pure clinical work
- 2) Under 50 years of age
- 3) Present engagement in tuberculosis control programs
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Seminars, discussions, workshops, etc.
 - Progress and problems in the participants' TB programs
 - Simulation of TB epidemiology
 - Problems of the workload in the integrated TB services
 - Target setting in the TB program
 - Evaluation of TB programs
 - Recent advances in TB control
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Research Institute of Tuberculosis
- 2) Japan Anti-Tuberculosis Association

6. REMARKS

SERIAL NUMBER 42

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

1. PERIOD

June 23, 1977 to July 10, 1977 (3-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Present or future officers for information, education and communication in family planning of government or voluntary organizations at central or provincial level
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Family planning in Japan
 - Information, education and communication activities in Japan
 - Information, education and communication activities in participating countries
 - Education and mass media
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japanese Organization for International Cooperation in Family Planning, Inc.

6. REMARKS

SERIAL NUMBER 64

TROPICAL EPIDEMIOLOGY (热带疫学)

1. PERIOD

August 11, 1977 to June 10, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates with doctor degree or licentiate with equivalent degree
- 2) Present engagement in the field of medicine or public health
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures, seminars and laboratory works
 - General epidemiology
 - Specific epidemiology
 - General virology
 - Tropical virology and infectious diseases
 - Pathology
 - Biostatistics
 - Acclimatization
 - Selected topics of interest
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Kobe University, School of Medicine

6. REMARKS

SERIAL NUMBER 72

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

1. PERIOD

August 20, 1977 to September 4, 1977 (2-week)

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) With sufficient command of spoken and written English

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 center
 - Family planning and maternal and child health center
 - 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

SERIAL NUMBER 82

TUBERCULOSIS CONTROL (SENIOR COURSE) (結核対策)
上級

1. PERIOD

September 12, 1977 to September 30, 1977 (3-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Ex-participants of the Group Training Course in Tuberculosis Control held at the Research Institute of Tuberculosis, Tokyo, during the period 1963 - 1975
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Progress and problems in the participants' TB programmes
 - Simulation of TB epidemiology
 - Problem of the workload in the integrated TB services
 - Target setting in the TB programme
 - Evaluation of TB programme
 - Recent advances in TB control
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) The Research Institute of Tuberculosis
- 2) Japan Anti-tuberculosis Association

6. REMARKS

SERIAL NUMBER 116

CLINICAL ONCOLOGY (ガン対策)

1. PERIOD

October 20, 1977 to March 2, 1978 (4.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Licenced physician 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

Lectures, Practical Training and Visits:

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

5. FACILITIES AND INSTITUTIONS

National Cancer Center

6. REMARKS

SERIAL NUMBER 118

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

1. PERIOD

October 27, 1977 to February 26, 1978 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Either one of the following three items
 - a) Qualified technician experienced over two years of laboratory works in bacteriology
 - b) Doctor with over one year of experience in laboratory works in bacteriology
 - c) Senior technician 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
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Tuberculosis control programs
 - Role of laboratory work in tuberculosis control programs
 - Laboratory techniques and methods for tuberculosis control
 - Accuracy control of laboratory examinations
 - Laboratory data control
 - Management of laboratory works, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Research Institute of Tuberculosis
- 2) Japan Anti-Tuberculosis Association

6. REMARKS

SERIAL NUMBER 122

COMMUNITY BASED FAMILY PLANNING (SEMINAR)

(家族計画組織活動セミナー)

1. PERIOD

November 6, 1977 to November 26, 1977 (3-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Presentations and discussions
 - Family planning in Japan
 - Family planning programs in relation to the logistics of each participating country
 - Main theme:
 - How to supply contraceptives 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

SERIAL NUMBER 129

RADIOGRAPHY (レントゲン技術)

1. PERIOD

January 5, 1978 to May 31, 1978 (5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 136

PUBLIC HEALTH ADMINISTRATION (衛生行政)

1. PERIOD

February 9, 1978 to March 8, 1978 (1-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Senior technical or administrative officials in charge of public health administration in central governmental organization
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Maternal child health
 - Health manpower development
 - Communicable disease control
 - Tuberculosis and reprosy control
 - Mental health
 - School hygiene
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Health and Welfare

6. REMARKS

SERIAL NUMBER 137

FAMILY PLANNING ADMINISTRATION FOR
SENIOR OFFICERS (SEMINAR) (アジア家族計画指導セミナー)

1. PERIOD

February 12, 1978 to February 25, 1978 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Senior officers or executive members who are responsible for family planning programmes of governments or voluntary organizations at a central level
- 2) With sufficient command of English

4. DESCRIPTION OF TRAINING

- 1) Discussions
 - Background information on family planning
 - Organizational structure
 - Budget and personnel
 - Evaluation
 - Communication and information
 - Logistics
 - International Cooperation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japanese Organization for International Cooperation in Family Planning, Inc. (JOICFP)
- 2) Tokyo International Center, JICA

6. REMARKS

15. MANAGEMENT TECHNOLOGY

SERIAL NUMBER 4

SMALLER ENTERPRISE DEVELOPMENT (SEMINAR)

(中小企業開発センター)

1. PERIOD

April 7, 1977 to June 30, 1977 (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) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Regional development
 - Industrial estate development planning
 - Financing and managerial guidance
 - Small industries and export trade promotion
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Nagoya International Training Center, JICA

6. REMARKS

SERIAL NUMBER 44

**BUSINESS FEASIBILITY STUDY &
MANAGEMENT PRACTICE (工業開発計画実務)**

1. PERIOD

June 23, 1977 to December 25, 1977 (6-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience in his own specialized field for more than three (3) years
- 2) Being currently engaged in or designated to the profession in the field of industrial development, planning and execution in governmental organization
- 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 Center, JICA
- 2) Central Japan Industrial Association (CJIA)

6. REMARKS

SERIAL NUMBER 127

MEASURES FOR SMALLER INDUSTRY (中小企業対策)

1. PERIOD

January 5, 1978 to March 24, 1978 (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 45 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 Center, JICA

6. REMARKS

16. ECONOMY, FINANCE AND MONEY

SERIAL NUMBER 29

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

1. PERIOD

May 12, 1977 to July 11, 1977 (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 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 trade
 - World trade (Japan) and Asia, Near and Middle East and Africa
 - Trade business practice
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The World Trade Center of Japan, Inc. (WTC)

6. REMARKS

SERIAL NUMBER 71

**FOREIGN TRADE PRACTICE
AND ITS GUIDANCE TECHNIQS FOR LEADERS (貿易実践指導者)**

1. PERIOD

August 18, 1977 to December 22, 1977 (4-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalents with occupational experience of more than 3 years
- 2) Under 35 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Theory, policy and structure of trade
 - Management of trade
 - Business practice of trade transaction
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) The Kobe Chamber of Commerce and Industries
- 2) Kobe University

6. REMARKS

SERIAL NUMBER 78

TAXATION (INDIRECT TAX) (SEMINAR) (間接税)

1. PERIOD

September 1, 1977 to October 20, 1977 (1.5-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
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Japanese taxes
 - Tax system of Japan on indirect tax
 - Tax administration of Japan on indirect tax
 - Comparative study on tax system and administration in Asian countries
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

SERIAL NUMBER 79

TAXATION (DIRECT TAX) (SEMINAR) (直接税)

1. PERIOD

September 1, 1977 to October 20, 1977 (1.5-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 (preferably in Direct Taxation)
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Taxation in Japan in relation to its social, historical and economic background
 - Direct taxation in Japanese Tax System and its administration
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Finance
- 2) National Tax Administration Agency
- 3) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 95

CUSTOMS TECHNIQUES (税関行政)

1. PERIOD

September 29, 1977 to November 14, 1977 (1.5-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
--The organizations and functions of customs administration
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Customs and Tariff Bureau, Ministry of Finance
- 2) Tokyo International Center, JICA

6. REMARKS

SERIAL NUMBER 94

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

1. PERIOD

September 29, 1977 to November 28, 1977 (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 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 trade
 - International economy
 - Trade business practice
 - Current topics
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

The World Trade Center of Japan, Inc. (WTC)

6. REMARKS

SERIAL NUMBER 104

TAXATION (SEMINAR) (SENIOR COURSE) (租 税 上 級)

1. PERIOD

October 3, 1977 to October 15, 1977 (2-week)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) Engaged in tax planning or administration
- 2) Directors or assistant directors of departments in National Tax Administration Agencies

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Comparative study of tax system and administration in Asian countries
 - Tax system and administration of Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

17. LABOUR

SERIAL NUMBER 8

HIGH SKILLED MACHINIST (上級技能者訓練)

1. PERIOD

April 7, 1977 to March 18, 1978 (11-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Technical or trade school graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of 3 to 6 years
- 4) Between 25 and 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 Center, Osaka Prefectural Government

6. REMARKS

SERIAL NUMBER 14

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

1. PERIOD

May 5, 1977 to July 5, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Present situation and problems of vocational training
 - Japanese labor economy
 - Policy for manpower development
 - Supervisor and human relations
 - Supervisory training
 - Responsibility and qualification of supervisory
 - Foreman training
 - Vocational training center
 - Supervisor and productivity
 - Audio visual aid
 - Foreman training within industry
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Vocational Training Bureau, Ministry of Labour

6. REMARKS

SERIAL NUMBER 33

VOCATIONAL TRAINING INSTRUCTORS
(MACHINERY COURSE)

職業訓練指導員養成(運輸装置)

1. PERIOD

June 2, 1977 to March 29, 1978 (10-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
 - Mechanics and mechanism
 - Strength of materials
 - Metals and metal technology
 - Machine tools
 - Mechanical processing
 - Measuring and testing
 - Hand finishing
 - Machine tool operation
 - Mechanical experiment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS

SERIAL NUMBER 33

VOCATIONAL TRAINING INSTRUCTORS
(ELECTRICAL COURSE) 職業訓練指導員養成(電氣)

1. PERIOD

June 2, 1977 to March 29, 1978 (10-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
 - Power generation, transmission, distribution and substation
 - Electric machinery
 - Power electronics
 - Illumination
 - Design of house wiring
 - Electrical wiring construction
 - House wiring
 - Switch panel wiring
 - Assembling and testing of transformer and motor
 - Electrical measurement
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS

SERIAL NUMBER 33

VOCATIONAL TRAINING INSTRUCTORS (ELECTRONICS)

職業訓練指導員養成(電子)

1. PERIOD

June 2, 1977 to March 29, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

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
 - Semi-conductor devices
 - Electronic circuit
 - Logical circuit
 - High frequency measurement
 - Radio wave propagation
 - Computer
 - TV engineering
 - Electrical communication engineering
 - Electrical circuit experiment
 - Logic circuit experiment
 - Transistor radio experiment
 - TV receiver experiment
 - Computer experiment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS

SERIAL NUMBER 33

VOCATIONAL TRAINING INSTRUCTORS
(WOODWORKING COURSE) 職業訓導指導員養成(木材加工)

1. PERIOD

June 2, 1977 to March 29, 1978 (10-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
 - Planning and design
 - Materials
 - Wood processing (Operations of woodworking machines, cutting process, glue connections and plywood process, and paint and painting)
 - Hand processing (Adjustment of hand tools, gluing process, sanding and finishing)
 - Mechanical processing
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS

SERIAL NUMBER 33

**VOCATIONAL TRAINING INSTRUCTORS
(AUTOMOTIVE COURSE)**

職業訓練指導員養成(機械)

1. PERIOD

June 2, 1977 to March 29, 1978 (10-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Forty-two (42) for 5 courses

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
 - Mechanics and mechanism
 - Strength of materials
 - Metals and metal technology
 - Engineering thermodynamics
 - Internal combustion engines
 - Automobiles mechanism
 - Automobile engineering
 - Outline of electrical engineering
 - Repair of motor vehicles
 - Engine performance test
 - Automobile performance test
 - Mechanical experiment
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Institute of Vocational Training

6. REMARKS

SERIAL NUMBER 83

OFFSET PRINTING (印刷技術)

1. PERIOD

September 15, 1977 to December 8, 1977 (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) Between 25 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction to photography
 - Introduction to lithography
 - Introduction to tone reproduction
 - Color reproduction and screening
 - Electronic color scanning
 - Stripping and correction
 - Offset lithographic plate making
 - Direct screening color separation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japan Association of Graphic Arts Technology

6. REMARKS

SERIAL NUMBER 102

INDUSTRIAL SAFETY AND HEALTH (SEMINAR)

(労働安全衛生行政セミナー)

1. PERIOD

September 29, 1977 to November 4, 1977 (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 Center, JICA

6. REMARKS

SERIAL NUMBER 106

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

1. PERIOD

October 6, 1977 to December 5, 1977 (2-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

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 labor administration
 - Function of labor organizations
 - Labor laws
 - History and present state of industrial relations
 - Labor economy
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Labor Policy Bureau, Ministry of Labor

6. REMARKS

SERIAL NUMBER 109

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

1. PERIOD

October 13, 1977 to December 20, 1977 (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 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Vocational education in Japan
 - Employer-Employee relationship and wages
 - Development of human abilities and employment policy
 - Public employment security
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Vocational Training Bureau, Ministry of Labour

6. REMARKS

SERIAL NUMBER 119

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

1. PERIOD

October 27, 1977 to November 30, 1977 (1-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 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture
-Public administration on women's problems in Japan
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) *Women's and Minor's Bureau, Ministry of Labour*
- 2) *Tokyo International Center, JICA*

6. REMARKS

18. INFORMATION SCIENCE

SERIAL NUMBER 91

COMPUTER TECHNOLOGY (コンピューター技術)

1. PERIOD

September 22, 1977 to December 21, 1977 (3-month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

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 40 years of age (preferably)

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

The Asia Electronics Union, Tokyo

6. REMARKS

GROUP TRAINING COURSES AND SEMINARS FOR 1977 BY THE GOVERNMENT OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates													Institutions and Facilities	
			4	5	6	7	8	9	10	11	12	1	2	3			
1	Coastal Fisheries Extension	11	3												28		Kanagawa International Fisheries Training Centre, Japan International Cooperation Agency (JICA)
2	Ceramic Glaze and Decoration	6	7						30								Tajimi-city Ceramic Design Research Centre and National Industrial Research Institute, Nagoya, Ministry of International Trade and Industry
3	Agricultural Extension Service	3	7			4											Japan Agricultural Extension Association
4	Smaller Enterprise Development (Seminar)	3	7			30											Nagoya International Training Centre, JICA
5	Ports and Harbours (Seminar)	2	7			11											Bureau of Ports and Harbours, Ministry of Transport
6	Animal Health Research	7	7											11			National Institute of Animal Health, Ministry of Agriculture and Forestry
7	Treatment of Offenders	3.5	7				13										Asia and Far East Institute for the Prevention of Crime and Treatment of Offenders
8	High Skilled Machinist	11	7													18	Higashi Yodogawa General Vocational Training Centre, Osaka Prefectural Government
9	Coins and Decoration Manufacture, Metal Analysis and Precious Metal Refining	3.5	14				30										Mint Bureau, Ministry of Finance
10	Agricultural Machinery (Refresher Course)	2	14			12											Osaka International Training Centre and Uchihara International Agricultural Training Centre, JICA
11	Poultry Development	5.5	21											3			Okazaki National Poultry Breeding Station, Ministry of Agriculture and Forestry
12	Marine Fisheries Research (I)	6	28												29		Tokai Regional Fisheries Research Laboratory, Fishery Agency
13	Artificial Insemination for Cattle	6	28												22		The Fukushima National Livestock Breeding Station, Ministry of Agriculture and Forestry
14	Supervisory Training (Seminar)	2		5		5											Vocational Training Bureau, Ministry of Labour
15	Metal Finishing Engineering	5		5						30							National Industry Research Institute, Nagoya, Ministry of International Trade and Industry

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates												Institutions and Facilities		
			4	5	6	7	8	9	10	11	12	1	2	3			
16	Thermal-Electric Power Engineering	3		5		23											Overseas Electric Industry Survey Institute Inc.
17	Early Gastric Cancer Detection	2		5		4											Medical Association for Early Gastric Cancer Detection
18	Hydro-Electric Power Engineering	3		5		23											Overseas Electric Industry Survey Institute Inc.
19	Off-Shore Prospecting	7		5									10				Geological Survey of Japan, Ministry of International Trade and Industry
20	Satellite Communication Engineering (I)	3		5			2										KDD (Kokusai Denshin Denwa Co., Ltd.)
21	International Telegraph and Telephone Traffic	2.5		5		19											ditto
22	National Government Administration	3		5		27											Institute of Public Administration, National Personnel Authority
23	Tourism Promotion A (Seminar)	2		12		15											Tourism Department, Ministry of Transport
24	Control of Rice Diseases and Insect Pests	6.5		12									23				Hyogo Agricultural Research Centre
25	Construction Machinery	3		12			15										Ministry of Construction
26	Hydrographic Survey	6		12									12				Hydrographic Department, Maritime Safety Agency
27	Carrier Telephony Engineering	3.5		12			22										NTT (Nippon Telegraph and Telephone Public Corporation)
28	Economic Development (Seminar)	1		12	10												Economic Planning Agency
29	Trade Promotion A (Seminar)	2		12		11											World Trade Centre of Japan
30	Water Works Engineering	3			2			2									Japan Water Works Association
31	Agricultural Machinery Maintenance and Repair	6			2									4			Osaka International Training Centre, JICA and Member Plants of Japan Agricultural Machinery Manufacturers Association
32	Fisheries Co-operatives	6			2									2			Kanagawa International Fisheries Training Centre, JICA
33	Vocational Training Instructors (Machinery, Electric, Electronics, Wood Working and Automotive)	10			2											29	Institute of Vocational Training

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates													Institutions and Facilities		
			4	5	6	7	8	9	10	11	12	1	2	3				
34	Microbial Diseases	10			2												24	Research Institute for Microbial Diseases, Osaka University
35	Criminal Investigation (Seminar)	1			9	15												National Police Agency
36	Surveying and Mapping (Map and Reproduction)	6			9								10					Geographical Surveying Institute, Ministry of Construction
37	Telephone Outside Plant Engineering	3.5			9				18									NTT (Nippon Telegraph and Telephone Public Corporation)
38	Tuberculosis Control	4.5			16								31					The Research Institute of Tuberculosis
39	Radio Frequency Monitoring	1.5			16	28												International Cooperation Office, Ministry of Posts and Telecommunications
40	Maintenance and Improvement Engineering of Permanent Ways	3			16				16									Japanese National Railways
41	Industrial Standardization (Seminar)	3 W			23	15												Japanese Standards Association
42	Information, Education and Communication in Family Planning (Seminar)	3 W			23	10												Japanese Organization for International Cooperation in Family Planning Inc. (JOICEP)
43	Agricultural Land and Water Resources Development	2			23			22										Agricultural Structure Improvement Bureau, Ministry of Agriculture and Forestry
44	Business Feasibility Study and Management Practice	6			23										25			Central Japan Industries Association
45	Solid Waste Processing and Disposal Engineering	2.5			23			31										Japan Environmental Sanitation Centre
46	Highway Construction (Seminar)	1			23	31												Road Bureau, Ministry of Construction
47	Ports and Harbours (Senior Course)	1			3	30												Bureau of Ports and Harbours, Ministry of Transport
48	Television Broadcasting Management	1.5			7	18												International Cooperation Office, Ministry of Posts and Telecommunications
49	Television Engineering	3			7								10					NHK (Nippon Hoso Kyokai, Japan Broadcasting Corporation), Central Training Institute
50	Railway Rolling Stock Engineering	3.5			7								17					Japanese National Railways
51	Microwave Communication Engineering (I)	3.5			7								17					NTT (Nippon Telegraph and Telephone Public Corporation)

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates											Institutions and Facilities			
			4	5	6	7	8	9	10	11	12	1	2		3		
52	Radio Broadcasting Engineering	2				21		15									NHK (Nippon Hoso Kyokai, Japan Broadcasting Corporation) Central Training Institute
53	Educational Television Programme	2.5				21				10							NHK (Nippon Hoso Kyokai, Japan Broadcasting Corporation) Central Training Institute
54	Electric Power Distribution	3				21				7							Ministry of International Trade and Industry and Overseas Electric Industry Survey Institute Inc.
55	River Engineering	4				21					19						River Bureau, Ministry of Construction
56	Foundry Engineering	8				27									31		National Industrial Research Institute (NIRI), Nagoya, Ministry of International Trade and Industry (MITI)
57	Textile Engineering (Weaving)	8				27									31		NIRI, Nagoya, MITI and Mikawa Textile Technical Centre, Aichi Prefecture
58	Tile Manufacturing Technology	8				27									31		Ina Seito Co., Ltd.
59	Mining Engineering	4					4				21						The Japan Mining Industry Association
60	Shipping Business	2					4			4							Shipping Bureau, Ministry of Transport
61	Port and Harbour Engineering	4.5					4						17				Bureau of Ports and Harbours, Ministry of Transport
62	Navigation Aids	2					4			8							Maritime Safety Agency
63	Industrial Design	2					4			3							Japan Industrial Design Promotion Organization
64	Tropical Epidemiology	10					11								78/6/10		Kobe University
65	Agricultural Statistics	2.5					11			31							Statistics and Information Department, Ministry of Agriculture and Forestry
66	Ground Water Resources	4					18					16					Geological Survey of Japan, Ministry of International Trade and Industry
67	International Telex Communication Engineering	3					18					20					KDD (Kokusai Denshin Denwa Co., Ltd.)
68	Microwave Communication Engineering (II)	3.5					18					27					NTT (Nippon Telegraph and Telephone Public Corporation)
69	City Planning	2					18			22							City Bureau, Ministry of Construction

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates											Institutions and Facilities			
			4	5	6	7	8	9	10	11	12	1	2		3		
70	Satellite Communication Engineering (II)	3					18			21							KDD (Kokusai Denshin Denwa Co., Ltd.)
71	Foreign Trade Practice and its Guidance Techniques for Leaders	4					18					22					The Kobe Chamber of Commerce and Industries and Kobe University
72	Medical and Biological Aspects in Family Planning (Seminar)	2 W					20	4									Japanese Organization for International Cooperation in Family Planning Inc.
73	Electronics	4					25					20					Industrial Research Institute, Osaka Prefectural Government
74	Bridge Engineering	2.5						1			14						Road Bureau, Ministry of Construction
75	Geothermal Energy	3						1			20						Kyushu University
76	Rice Processing	3						1				3					Japan Rice Millers Association
77	Water Pollution Control and Sewage Works Engineering	3.5						1				10					City Bureau, Ministry of Construction
78	Taxation (Indirect Tax) (Seminar)	1.5						1		20							National Tax Administration Agency
79	Taxation (Direct Tax) (Seminar)	1.5						1		20							ditto
80	Administration of Criminal Justice	3						1				7					Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders
81	Seismology and Earthquake Engineering	11.5						1						78/8/31			Building Research Institute, Ministry of Construction
82	Tuberculosis Control (Senior Course)	3 W						12	30								The Research Institute of Tuberculosis
83	Offset Printing	3						15				8					Japan Printing Association
84	Afforestation Techniques and Administration	3						15				15					Forestry Agency
	Marine Fisheries Research (II)	6						15							14		Tokai Regional Fisheries Laboratory, Fishery Agency
85	Prevention of Narcotic Offences (Seminar)	1.5						15		21							National Police Agency
86	Subway Engineering	2						15				13					TEITO Rapid Transit Authority
87	Technical Management of Pollution Control	1.5						15		25							Environment Agency

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates												Institutions and Facilities		
			4	5	6	7	8	9	10	11	12	1	2	3			
88	Development Economist (Industrial Project)	2.5							22			4					International Development Centre of Japan
89	Development Economist (General)	6.5							22							31	ditto
90	Statistics (General Course)	6.5							22							31	Asian Statistical Institute
91	Computer Technology	3							22			21					The Asia Electronics Union
92	Telephone Switching Engineering	3.5							22			30					NTT (Nippon Telegraph and Telephone Public Corporation)
93	Construction Engineering	3							22			21					Ministry of Construction
94	Trade Promotion B (Seminar)	2							29			28					World Trade Centre of Japan
95	Customs Technique	1.5							29			14					Customs and Tariff Bureau, Ministry of Finance
96	Metrology and Measurement Standards	6							29							28	National Research Laboratory of Metrology (NRLM) and Electrotechnical Laboratory (ETL)
97	Refractory Manufacturing Technology	6							29							31	Technical Research Laboratory of Mino Yogyo Co., Ltd.
98	Welding Technology	6							29							31	Japan Welding Society, Tokai Branch
99	Agricultural Co-operatives	3							29			20					Institute for Development of Agricultural Cooperation in Asia
100	Ceramic Engineering	11							29							78/8/31	National Industrial Research Institute, Nagoya, Ministry of International Trade and Industry
101	Metal Works and Engineering	11							29							78/8/31	ditto
102	Industrial Safety and Health (Seminar)	1.5							29			14					Labour Standards Bureau, Ministry of Labour
103	Meteorology	4							29							31	Japan Meteorological Agency
104	Taxation (Seminar) (Senior Course)	2 W										3 15					National Tax Administration Agency
105	Ceramic Industry Development (Seminar)	1										6 31					National Industrial Research Institute, Nagoya, Ministry of International Trade and Industry
106	Industrial Relations (Seminar)	2										6				5	Labour Policy Bureau, Ministry of Labour
107	Tourism Promotion B (Seminar)	2										6				6	Tourism Department, Ministry of Transport
108	Fire Service Administration	2										13				12	Fire Defence Agency

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates											Institutions and Facilities			
			4	5	6	7	8	9	10	11	12	1	2		3		
109	Vocational Training (Seminar)	2								13		20					Vocational Training Bureau, Ministry of Labour
110	Railway Electrification and High Speed Operation	1.5								13		3					Japanese National Railways
111	Telecommunication Management (Seminar)	2 W								14	29						International Cooperation Office, Ministry of Posts and Telecommunications
112	Plastic Technics	5								20					21		Osaka Municipal Technical Research Institute
113	Electric Power Management	2								20		19					Overseas Electric Industry Survey Institute Inc.
114	Shipbuilding	20								20					79/6/19		Ship Bureau, Ministry of Transport (Overseas Shipbuilding Cooperation Centre)
115	Administration for Seamen's Education	1								20	25						Seafarers Bureau, Ministry of Transport
116	Clinical Oncology	4.5								20					2		National Cancer Centre
117	Telephone Network Planning and Designing	3.5								27					13		NTT (Nippon Telegraph and Telephone Public Corporation)
118	Laboratory Works for Tuberculosis Control	4								27					26		The Research Institute of Tuberculosis
119	Public Administration Officers on Women's Problems (Seminar)	1								27	30						Women and Minors Bureau, Ministry of Labour
120	Aerodrome (Seminar)	1								27		2					Civil Aviation Bureau, Ministry of Transport
121	Technology for Disaster Prevention (Earthquake)	2								27		19					National Research Centre for Disaster Prevention
122	Community Based Family Planning (Seminar)	3 W								6	26						Japanese Organization for International Cooperation in Family Planning Inc.
123	Physical Oceanographic Survey	4								10					20		Hydrographic Department, Maritime Safety Agency
124	Broadcasting Administration (Seminar)	2 W								13	27						International Cooperation Office
125	Electrical Steel Making	3												5		31	National Industrial Research Institute, Nagoya, Ministry of International Trade and Industry and Daido Special Steel Corporation
126	Industrial Standardization and Quality Control	3												5		30	Agency of Industrial Science and Technology, Japanese Standard Association

No.	Subjects of Courses	Duration (Month)	Starting and Terminating Dates													Institutions and Facilities		
			4	5	6	7	8	9	10	11	12	1	2	3				
127	Measures for Smaller Industry	3													5		24	Osaka Prefectural Government, The Osaka Prefectural Institute for Industrial Management
128	Wood Industrial Machinery Engineering	3													5		31	Industrial Research Institute, Aichi Prefecture
129	Radiography	5													5		5/31	College of Biomedical Technology, Osaka University
130	International Telephone Switching Engineering	2.5													5		19	KDD (Kokusai Denshin Denwa Co., Ltd.)
131	Treatment of Offenders (Senior Course)	1.5													9		28	Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders
132	Administration of Pollution Control	1.5													9		19	International Affairs Division, Environment Agency
133	Railway Signal Engineering	4													9		6/14	Japanese National Railways and Japan Association of Signal Industries
134	Vegetable Crops Production	10													9		11/30	Uchihara International Agricultural Training Centre, JICA
135	Irrigation and Drainage	10													9		11/30	ditto
136	Public Health Administration	1													9		8	Ministry of Health and Welfare
137	Family Planning Administration for Senior Officers (Seminar)	2 W													12		25	Japanese Organization for International Cooperation in Family Planning Inc.
138	Postal Executives (Seminar)	2 W													1		14	Postal Bureau, Ministry of Posts and Telecommunications
139	Rice Cultivation and its Extension	9.5													2		12/22	Uchihara International Agricultural Training Centre, JICA
140	Rice Production Mechanization	9.5													2		12/22	ditto
141	Telecommunication Development (Seminar)	2 W													9		24	International Cooperation Office, Ministry of Posts and Telecommunications

