

1. PERIOD  
September 3, 1992 to December 10, 1992 (3.5 months)
2. NUMBER OF PARTICIPANTS TO BE RECEIVED  
Eight (8)
3. QUALIFICATIONS
  - 1) University graduates or equivalent
  - 2) Occupational experience of over 2 years
  - 3) Mechanical or metallurgical engineer (not academic researchers)
  - 4) Between 30 and 40 years of age
  - 5) Good working knowledge of English
4. DESCRIPTION OF TRAINING
  - 1) Lectures and practical training
    - a) Basic Knowledge
      - Metallic Materials
      - Fundamentals of Heat Treatment
      - Heat Treatment Equipment
    - b) Heat Treatment of Steel and Iron
      - Structural Steel
      - High Speed Steel
      - Alloyed Tool Steel
      - Case Hardening
    - c) Related Technologies
      - Advanced and Related Technologies
      - Quality Control
      - Technical Meeting
  - 2) Observation Tours
5. FACILITIES AND INSTITUTIONS
  - 1) Aichi Industrial Research Association
  - 2) Industrial Research Institute, Aichi Prefecture
  - 3) Related Industries
6. REMARKS

MAINTENANCE OF CONSTRUCTION MACHINERY 建設機械整備(英語)

1. PERIOD

May 14, 1992 to August 10, 1992 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

**D'ENTRETIEN ET DE REPARATION DE L'EQUIPEMENT**  
**DE CONSTRUCTION**

建設機械整備（仏語）

**1. Durée**

Du 5 octobre 1992 au 20 décembre 1992 (2 mois)

**2. Nombre de participants à recevoir**

Huit (8)

**3. Qualifications**

- 1) Etre titulaire de diplôme universitaire ou équivalent avec plus de trois ans d'expérience professionnelle
- 2) Etre engagé actuellement ou dans l'avenir dans le service de planification et d'administration dans le domaine de l'équipement de construction
- 3) Etre âgé de moins de 40 ans
- 4) Bonne connaissance de la langue française pour le travail

**4. Nature de formation**

- 1) Cours théoriques
  - Planification de travail de construction mécanisé et utilisation d'équipements de construction
  - Fonctionnement, structure, performance d'équipements de construction
  - Entretien, réparation, inspection et dépiéage de pannes d'équipements de construction
  - Planification, disposition, contrôle de pièces et d'outillage ainsi que gestion d'atelier de réparation
- 2) Travaux pratiques
  - Pratique fondamentale = Moteur, Embrayage, Boîte de vitesses, Différentiel etc.
  - Pratique spécialisée = Bulldozer, Scraper, Niveleuse, Excavatrice, Grue

**5. Etablissements et institutions**

- 1) Centre International de Formation de Hachioji, JICA
- 2) Association Japonaise de Mécanisation de Construction

**6. Remarques**

Le Cours s'effectuera en français ou par la traduction du japonais en français

No. 208

MECANIQUE AUTOMOBILE VEHICULES DIESEL

(AUTOBUS, CAMIONS POIDS-LOURD) バス・トラック整備技術(仏語)

1. **Durée**

Du 11 janvier 1993 au 27 mars 1993 (3 mois)

2. **Nombre de participants à recevoir**

Onze (11)

3. **Qualifications**

- 1) Formation qualifiée dans leur domaine concerné
- 2) Expérience professionnelle de plus de 3 ans dans le domaine de l'entretien et la réparation de véhicules diesel
- 3) Age entre 25 et 40 ans
- 4) Bonne connaissance de la langue française pour le travail

4. **Nature de formation**

- 1) Cours et pratique  
—Connaissances de base sur le mécanisme et le fonctionnement de véhicules diesel
- 2) Voyage d'études

5. **Etablissements et institutions**

- 1) Centre International de Formation de Hachioji, JICA
- 2) Hino Motors S. A.

6. **Remarques**

Le Cours s'effectuera en français ou par la traduction du japonais en français.

1. PERIOD

May 11, 1992 to October 2, 1992 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be university graduates or the equivalent
- 2) have 3 years' or more occupational experience in the field of plant maintenance business and is in charge of maintenance business today in continuous process plants, such as Iron & Steel, Oil Refinery or Chemical, Cement plant, Automotive plant etc.
- 3) not more than 45 year old
- 4) have a sufficient command of spoken and written English\*

\* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Introduction to Plant Maintenance (18 hours)
  - Computer Literacy (72 hours)
  - Maintenance of Automatic Control System (30 hours)
  - Improvement Techniques (30 hours)
  - Basic Subjects of Maintenance Management (30 hours)
  - Maintenance Management in Corporations (24 hours)
  - Fatigue of Metals and Fractography (12 hours)
  - Equipment Inspection Technique (18 hours)
  - Non-Destructive Testing (18 hours)
  - Technical Visit to Different Industries (201 hours, 18 Companies & 1 University)
- 2) Observation tours (42 hours)

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Kyushu International Centre, JICA
- 3) Related Industries

6. REMARKS

AUTOMATIC CONTROL (GENERAL INTRODUCTION)

自動制御

1. PERIOD

July 6, 1992 to November 26, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Have four years' occupational experience or more in the field of production, planning of plants and machinery, and be engaged in the automation at present or in the near future.
- 2) Be those who have graduated from electrical, control or mechanical engineering department of university, or have the equivalent academic background,
- 3) Have a sufficient command of spoken and written English, and
- 4) Be not more than 40 years old
- 5) Be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

- 1) The course will be conducted in the form of:  
Lecture/discussions, studies by simulators, field trips, etc.
  - Theory of feedback control and feed forward Control
  - Modeling and its application in practical situations
  - Advanced control theory
  - Measurement and sensors and its importance in the control system
  - Basic knowledge of hydraulic, pneumatic and electric sequence control circuits, and then designing
  - Application of hydraulic, pneumatic and electric actuators
  - Computer literacy
  - Programmable Logic Controller (PLC), programming methods, operation and maintenance techniques
  - Process control system
  - Selection of process features and control characteristics
  - Measuring method of dynamic characteristics of process
  - Optimum adjustment by control instruments
  - Field observations

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Kyushu Institute of Technology etc.

6. REMARKS

**1. PERIOD**

June 29, 1992 to October 25, 1992 (4 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be presently engaged and have more than three years job experience in maintenance
- 2) be those who graduated the faculty of engineering or have the equivalent academic background
- 3) have a sufficient command of spoken and written English
- 4) be not more than 35 years old
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and Practical Training
  - Introduction to Maintenance Management and Engineering
  - Reliability and Maintainability
  - Fundamentals of CDT
  - Basic Concept Condition Based Maintenance System
  - Vibration and its Measurement
  - Non-destructive Testing (NDT) and its Measurement
  - Diagnostic Methods for Rotating Machines and Elements
  - Practice of Maintenance Management and Machine Condition Diagnosis
  - Maintenance Control by Personal Computer
- 2) Observation Tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Kitakyushu International Training Association
- 2) Related Industries

**6. REMARKS**

PLANT MAINTENANCE MANAGEMENT 保全管理

1. PERIOD

January 11, 1993 to May 16, 1993 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) be university (Engineering Department) graduates or equivalent
- 2) have more than 3 years' occupational experience in the field of plant maintenance business
- 3) be not less than 30 years old, and not more than 40 years old
- 4) have a sufficient command of spoken and written English
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

- 1) Lecture (L), Practice (P), Field Study (F)
  - Outline of Maintenance (L)
  - Management of Plants (L)
  - Computer Literacy (P)
  - Management Policy and Control (L, F)
  - Outline of Maintenance System (L)
  - Maintenance of Bearing (L)
  - Actual Samples of Corrosion and Countermeasure (L, F)
  - Diagnosis Technique of Machines (L, P)
  - Non-destructive Tests (L, P)
  - Training of Repairing Technique (L, P)
  - Improvement Methods (L, P)
  - Repairing and Change of Parts (L, F)
  - Inspection of Electric Equipment Manufacturing (L, F)
  - Management and Data (L, P)
  - How to Make Inspection Plan (L, P)
  - Scheduled Time for Repairing (L, P)
  - Repairing Plan (L, P)
  - Control of Maintenance Materials (L, P)
  - Management of Welding and Assembling (L)
  - Maintenance of Electric Equipments (L, F)
  - Activity of Maintenance Management of Iron & Steel Plant, Car Manf. Co., Sugar Mfg., Cement Plant, Chemical Plant and Sanitary Wares Instrument Mfg. (L, F)
- 2) Study Trip

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Other related industries

6. REMARKS



1. PERIOD

June 1, 1992 to October 29, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be university graduates or equivalent
- 2) be those who have more than five years' and less than ten years' occupational experience in the field of maintenance engineering and is in charge of spare parts purchasing or controlling.
- 3) be under 40 years old
- 4) have a sufficient command of spoken and written English
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practical Training
  - Improvement Technique
  - Introduction to Plant Maintenance
  - Non-destructive Testing
  - How to Collect the Data and How to Use them
  - Basic Maintenance Management
  - Maintenance Spare Parts Management & Control
  - Parts Sketch
  - Manufacturing of Casting Forgings and Weldments
  - Practice of Spare Parts Manufacturing Job
  - Equipment Inspection Technique
  - CAD/CAM
  - Design Concept of Spare Parts
  - Cause Investigation and Countermeasure for Spare Parts Breakage and Deterioration
  - Repair and Improvement Technique for Machine Parts
  - Machining & Assembly Procedure, Check Points, Test Run Procedure and Inspection Method, Technical Purchase Specification
- 2) Field Training & Observation Tour

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Kyushu Institute of Technology
- 3) Kitakyushu College of Technology
- 4) Fukuoka Industrial Technology Center
- 5) Related Industries

6. REMARKS

HIGH TECHNOLOGY OF METAL WORKS II 金屬加工高品質化技術 II

1. PERIOD

September 17, 1992 to March 6, 1993 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

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 26 and 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Advanced cutting technology & its new materials
  - Electronic control metal works
  - NC programming & metal works
  - CAD & CAM technology
  - Factory automation
  - 3-dimensional precision measurement
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya International Training Centre (NITC), JICA
- 2) Government Industrial Research Institute, Nagoya
- 3) Industrial Research Institute, Aichi Prefecture
- 4) Metal Working Industries
- 5) Universities  
Nagoya University and other related universities

6. REMARKS

No. 215

**FACTORY MANAGEMENT FOR PRODUCTION MANAGERS**  
**IN MACHINING INDUSTRY**

生産工程管理技術

**1. PERIOD**

May 7, 1992 to September 19, 1992 (4.5 months)

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

Seven (7)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent with occupational experience of more than 5 years
- 2) In charge of production management, industrial engineering, production engineering, etc. (Production managers, supervisors and industrial engineers are most preferable. The engineers in other field of engineering will be acceptable.)
- 3) Under 45 years of age
- 4) Proficient in spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and Practical Training
  - Industrial Development from Macroscopic Viewpoint
  - Practical knowledge of jigs & fixtures
  - Application of jigs & fixtures to process design and improvement
  - Practices of Plant Management
  - Plant improvement techniques
  - Integrated Production System
- 2) Visits to public & private organizations
- 3) Field trip to Kanto & Kansai area

**5. FACILITIES AND INSTITUTIONS**

- 1) CHU-SAN-REN (Central Japan Industries Association)
- 2) Related industries

**6. REMARKS**

1. PERIOD

April 30, 1992 to October 30, 1992 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Welding engineer or researcher
- 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) Theoretical education
  - Welding processes and equipment . . . . . 4 weeks
  - Materials and their behaviour during welding . . . . . 4 weeks
  - Construction and design . . . . . 2 weeks
  - Fabrication, applications engineering . . . . . 4 weeks
- 2) Fundamental practical skills (individual) . . . . . 2 weeks
- 3) Observation and practice in industries, research institutes and educational facilities and individual training . . . . . 3 weeks

5. FACILITIES AND INSTITUTIONS

- 1) The Japan Welding Engineering Society
- 2) Universities, institutes, major private industries, medium and small factories.

6. REMARKS

AIR-CONDITIONING ENGINEERING 空調技術

1. PERIOD

August 6, 1992 to December 9, 1992 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates majoring in mechanical engineering or electrical engineering
- 2) Experience of at least 3 years in air-conditioning engineering including system layout
- 3) Under forty (40) years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

Lectures, practices in plants and construction sites, on the job training and observation trips will cover the following items;

- 1) Fundamentals of air-conditioning
  - Fundamental knowledge
  - Basic practice
- 2) Air-conditioning basic works
  - Connecting pipings
- 3) Air-conditioning system design
- 4) Cooling and heating
  - Electric circuit
  - Mechanism and function of air-conditioners
- 5) Advanced system design

5. FACILITIES AND INSTITUTIONS

Sakai Plant, Daikin Industries, Ltd.

6. REMARKS

**DESIGN AND MANUFACTURING OF CARGO HANDLING EQUIPMENT**

荷役機械の設計・製造

**1. PERIOD**

October 26, 1992 to March 21, 1993 (5 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be university graduates (faculty of engineering) or equivalent
- 2) have 3 years' or more occupational experience on machine design or manufacturing\*
- 3) be not more than 40 years old
- 4) have a sufficient command of spoken and written English\*\*

\* A maintenance technician is improper to this course.

\*\* For an example, it is desirable to hold TOFEL (Test of English as a Foreign Language) score more than 500 points.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and Practice
  - Computer Literacy (66 hours)
  - Outline of Cranes (6 hours)
  - Fatigue of Metals (18 hours)
  - Strength of Materials (12 hours)
  - Basic Design of Cranes (18 hours)
  - Design of Crane Parts (18 hours)
  - Crane Design by Personal Computer (18 hours)
  - Computer Aided Design (60 hours)
  - Theory of Structures for Crane Design (6 hours)
  - Planning of Cranes (18 hours)
  - Design of Crane Girder (12 hours)
  - Design and Drawing of Crane Girder (24 hours)
  - Control and Maintenance of Electric Motor (18 hours)
  - Control of Cranes (12 hours)
  - Manufacturing Control, Testing, and Maintenance of Cranes (18 hours)
  - Heat treatment of Metals (6 hours)
  - Improving Technique of Industrial Control (12 hours)
  - Non-Destructive Testing (18 hours)
  - Welding Technique (6 hours)
- Manufacturing of Machine Parts (12 hours)
- Outline of Maintenance (12 hours)
- Machine Condition of Diagnosis Technique (18 hours)
- 2) Plant Visit (36 hours, 12 companies)
- 3) Observation Tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Kitakyushu International Training Association
- 2) Kyushu International Centre, JICA
- 3) Hamada Heavy Industries Ltd.
- 4) Kyushu Institute of Technology
- 5) Related Industries

**6. REMARKS**

1. PERIOD

November 2, 1992 to March 26, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be those who have occupational experience of planning, design, use or maintenance on hydraulic equipment.
- 2) be those who are university graduates or have the equivalent academic background.
- 3) have a sufficient command of spoken and written English.
- 4) be thirty five (35) years of age or less.
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Introduction to Oil Hydraulics
  - Construction and Function of its Elementary Components
  - Basic Conception in Application of Hydraulic System
  - Actual Application of Hydraulic System in Various Fields
  - Advanced Hydraulic System
  - Maintenance Techniques and its Practice in Actual Hydraulic System
- 2) Field Study
  - Application of Hydraulic System
  - Plant Visits
- 3) Study Trip

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association,
- 2) Mitsubishi Heavy Industries, Shimonoseki Ship Yard, Nippon Steel Yahata Works,  
Japan Casting and Forging Corp., Mitsubishi Nagasaki Machinery Manufacturing Corp.,  
Hydraulic Unit Manufacturers and other several companies

6. REMARKS

**INSPECTION AND TESTING TECHNIQUES FOR HOUSEHOLD  
ELECTRICAL APPLIANCES**

電気製品検査技術

**1. PERIOD**

September 24, 1992 to December 2, 1992 (2.5 months)

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

Five (5)

**3. QUALIFICATIONS**

- 1) Testing staff belonging to Government Inspection Organizations, or Public Institutions authorized by the Government Inspection Organizations, or under the control of the Government
- 2) University graduates majored in Electrical, Electronics, Mechanical Engineerings or the equivalent
- 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
  - Introduction to Export Inspection System
  - Summary of Sampling Inspection Method
  - Outline of Japanese Legal Requirements
- 2) Lectures and practical training
  - Technology transfer (fundamental techniques) of inspection & testing for General Electric Heaters, lighting equipment, General Communication Equipment and Cooking Appliance, General Electric Rotating Machinery, etc.
  - Introduction of techniques in using general type of testing equipment
- 3) Observation tour
  - Related manufacturers

**5. FACILITIES AND INSTITUTIONS**

- 1) International Trade and Industry Inspection Institute, Ministry of International Trade and Industry (ITI)
- 2) JMI Institute
- 3) Japan Electrical Testing Laboratory (JET)
- 4) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**



**SHIPBUILDING, REPAIRING AND MAINTENANCE**

船舶建造メンテナンス

**1. PERIOD**

January 7, 1993 to December 6, 1993 (11 months)

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

Twenty (20)

**3. QUALIFICATIONS**

- 1) be university graduate who majored in engineering and have more than three (3) years of occupational experience in shipbuilding, repairing and maintenance
- 2) be not less than thirty five (35) years old
- 3) have a sufficient command of spoken and written English
- 4) be in good health, both physically and mentally
- 5) not be serving as a military personnel.

**4. DESCRIPTION OF TRAINING**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1) <b>Obligatory Subjects</b> <ul style="list-style-type: none"> <li>- Basic planning I, II</li> <li>- Basic design</li> <li>- Hull design</li> <li>- Outfitting design</li> <li>- Ship repair</li> <li>- Marine engine</li> <li>- Marine Electrical equipment</li> <li>- Marine electronics</li> <li>- Computer application in shipbuilding</li> <li>- Outline of special purpose ship</li> <li>- Automation &amp; energy saving methods on ships</li> <li>- Quality assurance in shipyards</li> <li>- International cooperation concerning shipbuilding</li> <li>- International convention on ship safety &amp; environmental preservation</li> <li>- Special lecture</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li>2) <b>Optional Subjects A</b> <ul style="list-style-type: none"> <li>- Hull construction I, II</li> <li>- Outfitting process</li> <li>- Production control &amp; shipyard management</li> <li>- Standardization in shipyards</li> <li>- Safety control in shipyards</li> <li>- Rationalization and modernization in shipyards</li> </ul> </li> <li>3) <b>Optional Subjects B</b> <ul style="list-style-type: none"> <li>- Maintenance of ship machine I, II</li> <li>- Systems to secure ship safety</li> <li>- Ship safety standards I, II</li> <li>- Approval of plans I, II</li> <li>- Field survey and supervision I, II</li> <li>- Recent inspection technology and equipment</li> </ul> </li> <li>4) <b>Observation study tours</b></li> <li>5) <b>Practice at shipyard on related organization</b></li> </ol> |
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**5. FACILITIES AND INSTITUTIONS**

- 1) Maritime Technology and Safety Bureau, Ministry of Transport
- 2) Overseas Shipbuilding Cooperation Centre

**6. REMARKS**

MOTORIZATION モーターリゼーション

1. PERIOD

May 18, 1992 to July 13, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates
- 2) Should have basic knowledge of automotive engineering with administrative experience of more than 3 years
- 3) Over 25 and under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Introduction
- 2) Motor industry and relevant policies in Japan
- 3) Motorization and vehicles in future
- 4) Technical knowledge on automobile engineering
- 5) Pollution and automobiles
- 6) Safety and automobiles
- 7) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japan Automobile Research Institute (JARI)
- 2) Tsukuba International Centre, JICA

6. REMARKS

RENOVATION OF INDUSTRIAL EQUIPMENT

設備のリノベーション

1. PERIOD

February 15, 1993 to July 10, 1993 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) be those who have more than five years experience in equipment design, construction or maintenance in the field of process industries such as chemical, cement, oil refinery, iron and steel plant.
- 2) be those who graduated from the department of technology of university or have the equivalent academic background.
- 3) have a sufficient command of spoken and written English.
- 4) be forty (40) years of age, or less.
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

- 1) Maintenance and Renovation of Equipment
- 2) Technology Required for Planning of Equipment Improvement
- 3) Relevant Instrumentation
- 4) Design and Practice of Heat Exchangers

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Krosaki Corporation
- 3) Takada Corporation
- 4) Nippon Steel Corporation
- 5) Mitsubishi Kasei Corporation, Ltd.
- 6) Shinnippon Nondestructive Inspection Co., Ltd.

6. REMARKS

**1. PERIOD**

September 3, 1992 to October 30, 1992 (2 months)

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

Eight (8)

**3. QUALIFICATIONS**

- 1) be university graduates (preferably B. S. in Textile Engineering) or equivalent academic achievements with the managerial experience of at least five (5) years in production,
- 2) be presently engaged in the production of Textile Goods,
- 3) between 27 and 40 years of age,
- 4) good working knowledge of English.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Textile industry in economical viewpoint
  - Fiber testing method
  - Spinning & weaving, warping & sizing, winding, and dyeing & finishing machines
  - Spinning & weaving plants
  - Production control
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Toyoda Automatic Loom Works, Ltd.
- 2) Aichi Prefectural Textile Research Centres

**6. REMARKS**

**INSPECTION AND TESTING TECHNIQUES FOR TEXTILE PRODUCTS**

纖維製品検査技術

**1. PERIOD**

January 11, 1993 to March 21, 1993 (2.5 months)

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

Five (5)

**3. QUALIFICATIONS**

Applicants should:

- 1) belong to Government Inspection Organizations or Public Inspection Institutions
- 2) be college graduated or equivalent
- 3) have occupational experience of more than 3 years
- 4) be between 25 and 40 years of age
- 5) have good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures
  - a) Introduction to the Export Inspection System
  - b) Introduction to the Household Goods Quality Labelling Law (by III)
  - c) Introduction to the Consumer Product Safety Law
  - d) Introduction to the Law for the Control of Household Products Containing Harmful Substances
  - e) Explanation of information on quality required in the trading
- 2) Lectures and Practical Training
  - a) Technical transfer (fundamental techniques) of inspection and testing for the above
    - \* Fabrics (include knitting fabric)
    - \* Sewing products
  - b) Introduction of techniques in using general type of testing equipment
- 3) Visit to the manufacturers related to this course

**5. FACILITIES AND INSTITUTIONS**

- 1) International Trade and Industry Inspection Institute, Ministry of International Trade and Industry (III)
- 2) Japan Synthetic Textile Inspection Institute Foundation
- 3) Japan Spinners Inspection Foundation
- 4) Japan Knitting Inspection Institute Foundation
- 5) Japan Sewing Goods Inspection Foundation
- 6) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

1. PERIOD

August 20, 1992 to December 10, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than 5 years in the field of wood industry, belonging to a governmental organization
- 3) Under 40 years of age
- 4) Proficient in spoken and written English.

4. DESCRIPTION OF TRAINING

- 1) Lectures and Observation
  - Silviculture and Timber Production
  - Utilization of Wood Resources
  - Production Technology of Improved Wood
  - Wood Materials and Surface Finishing
  - Wood Materials and Adhesives
  - Research of Wood Technology
- 2) Practical Training (4 days)

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya Regional Forest Office, Forestry Agency
- 2) Universities and public institutes
- 3) Related industries

6. REMARKS

**1. PERIOD**

April 16, 1992 to October 30, 1992 (7 months)

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

Seven (7)

**3. QUALIFICATIONS**

- 1) be university graduates or the equivalent, and have more than three (3) years practical experience at educational or research institutions related to ceramics,
- 2) be working at the ceramic manufacturing plant as an engineer or institutions of ceramic R & D as a researcher, and not be craftsmen,
- 3) be between twenty-five (25) and forty (40) years of age,
- 4) be proficient in spoken and written English. Experience has shown that many participants find themselves unable to make progress in their training because of the inadequate knowledge of English,
- 5) be in good health, both physically and mentally, to undergo the course of training. Pregnancy is regarded as a disqualifying condition for participation in the training.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Raw materials
  - Preparation of bodies
  - Glaze
  - Screen printing (transfer paper)
  - Firing
  - Related to pottery & porcelain wares
  - Other subjects
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Government Industrial Research Institute, Nagoya
- 2) Tajimi City Pottery Design and Technical Centre
- 3) Institute for Comparative Pottery, Chukyo Junior College
- 4) Ceramic Industries

**6. REMARKS**

PACKAGING ENGINEERING 包装技術

1. PERIOD

August 25, 1992 to October 18, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Packaging engineers directly engaged in package industry at present
- 2) University graduates or its equivalent
- 3) Experience for more than 3 years in the relevant field
- 4) Good working knowledge of English
- 5) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Packaging Materials
  - Corrugated boards and boxes
  - Paperboard containers and printing
  - Treated papers and cellulose films
  - Plastic films
  - Plastic containers
  - Metal cans
  - Glass bottles
- \* 2) and 3) are optional subjects.
- 2) Transport Packaging Techniques
  - Packaging plan
  - Transport packaging and wooden boxes
  - Outer packaging and its machines
  - Testing Methods and equipments
  - Packaging standardization
- 3) Consumer Packaging Techniques
  - Automation in Packaging operations and machines
  - Moisture-proof and gas-barrier packaging
  - Packaging design (graphic)
  - Safety and sanitation in packaging
  - Food packaging techniques
- 4) Technical Visit and Practical Training

5. FACILITIES AND INSTITUTIONS

- 1) Japan Packaging Institute (JPI)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS



## 1. PERIOD

August 31, 1992 to July 29, 1993 (11 months)

## 2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

## 3. QUALIFICATIONS

- 1) University graduates in the field of industrial science and technology
- 2) Occupational experience of more than 3 years as a researcher
- 3) Over 25 and under 35 years of age
- 4) Sufficient command of spoken and written English

## 4. DESCRIPTION OF TRAINING

- 1) Orientation to laboratories . . . . . 1 week  
Introduction of laboratories to which participants are assigned according to their individual study subjects.
- 2) Individual studies . . . . . 41 weeks  
31 subjects are prepared for the individual study by the following 11 institutes. Applicants should select 1 subject out of them.
 

|  |            |
|--|------------|
| -- National Research Institute of Metrology . . . . .              | 3 subjects |
| -- Mechanical Engineering Laboratory . . . . .                     | 2 subjects |
| -- National Chemical Laboratory for Industry . . . . .             | 8 subjects |
| -- Fermentation Research Institute . . . . .                       | 2 subjects |
| -- Research Institute for Polymers and Textiles . . . . .          | 5 subjects |
| -- Geological Survey of Japan . . . . .                            | 1 subject  |
| -- Government Industrial Development Institute, Hokkaido . . . . . | 2 subjects |
| -- Government Industrial Research Institute, Tohoku . . . . .      | 1 subject  |
| -- Government Industrial Research Institute, Nagoya . . . . .      | 2 subjects |
| -- Government Industrial Research Institute, Osaka . . . . .       | 4 subjects |
| -- Government Industrial Research Institute, Chugoku . . . . .     | 1 subject  |
- 3) Observation tour (in group) . . . . . 2 weeks  
Related institutions

## 5. FACILITIES AND INSTITUTIONS

- 1) Japan Industrial Technology Association
- 2) Agency of Industrial Science and Technology (AIST)
- 3) Tsukuba International Centre, JICA

## 6. REMARKS

**ENERGY**



ENERGY CONSERVATION 省エネルギー

1. PERIOD

October 13, 1992 to December 3, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) be university/college graduates or equivalent and be presently employed in government, governmental institutions, industrial associations, or companies,
- 2) be presently engaged in work in the energy field or expected to be engaged in such work after returning to the country,
- 3) Good working knowledge of English.

4. DESCRIPTION OF TRAINING

- 1) Lecture
  - Energy Situation in Japan
  - Energy Conservation in Major Industries
  - Energy Management in Industry
  - Technology Development
- 2) Practice
  - Energy Management in Industry
- 3) Presentation
  - Energy Conservation Promotion of Model Factory
  - Country Report
- 4) Observation
  - Successful Cases of Energy Conservation
  - Energy Conservation Equipment Manufacturer

5. FACILITIES AND INSTITUTIONS

- 1) Energy Conservation Center, Japan (ECC)
- 2) Agency of Natural Resources and Energy, Ministry of International Trade and Industry
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

**1. PERIOD**

January 25, 1993 to June 11, 1993 (5 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be university graduates or equivalent
- 2) be those who have energy management experience or will be in charge of energy management in the near future
- 3) be not more than 35 years old
- 4) have a sufficient command of spoken and written English
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures
  - Introduction of Energy Management
  - Basic Thermodynamics
  - Basic Automatic Control
  - Heat Balance
  - Energy system for Environmental Pollution Control
  - Basic theory of Electricity
  - Methodology of Energy Conservation
  - Energy Conservation Measures for Industrial Furnaces
- 2) Practical Training
  - Automatic Control
  - Heat Measurement
  - Basic theory of Electricity
  - Methodology of Energy Conservation
- 3) Plant Visits and Observation Tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Kyushu International Training Association
- 2) Kyushu Institute of Technology
- 3) Fukuoka Industrial Technology Centre
- 4) Related Industries

**6. REMARKS**

**1. PERIOD**

May 5, 1992 to June 20, 1992 (1.5 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be civil engineers who are presently employed at governmental institutions or private companies in the field of hydro-electric power supply,
- 2) be technical college graduates or equivalent and have more than five (5) years and less than ten (10) years of practical experience,
- 3) have sufficient command of spoken and written English.

**4. DESCRIPTION OF TRAINING****1) Lectures:**

- Japan's Electric Power Industry
- Orientation for EPDC's Programme
- Construction Record Films
- Present Situation and Future Prospect of EPDC
- Planning of Power System
- Operation and Maintenance of Hydro-electric Power Plant
- Design and Construction of Hydro Power Station, Substation facilities
- Operation and Maintenance of Hydro-electric Power Plant
- Cavern Analysis Design of Civil Facility by CAD
- Others

**2) Visits:**

- Central Load Dispatching Control Office
- Hydro-electric Power Station
- Engineering & Research Institute
- Sea Water Pumped Storage Project
- Others

**5. FACILITIES AND INSTITUTIONS**

- 1) Japan Electric Power Information Center, Inc.
- 2) Electric Power Development Co., Ltd.
- 3) Agency of Natural Resources and Energy, Ministry of International Trade and Industry (MITI)
- 4) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

**OPERATION AND MAINTENANCE OF COAL-FIRED THERMAL  
POWER PLANTS**

石炭火力発電

**1. PERIOD**

September 29, 1992 to November 24, 1992 (2 months)

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

Five (5)

**3. QUALIFICATIONS**

- 1) Technical college graduates or equivalent, majored electric/mechanical engineering
- 2) Qualified in their respective fields (Electrical and mechanical engineering in operation and maintenance)
- 3) Occupational experience of more than 7 years
- 4) Between 30 and 40 years of age
- 5) Good command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Japanese electric power development policy
  - Operation and maintenance of coal-fired thermal power station
  - Simulation training
  - Countermeasures for environmental preservation
- 2) Observation tours
  - Various types of power station
  - Coal-fired thermal power stations
  - Manufacturers of equipment related to Coal Fired Thermal Power Industry

**5. FACILITIES AND INSTITUTIONS**

- 1) Japan Electric Power Information Centre, Inc.
- 2) Electric Power Development Co., Ltd.

**6. REMARKS**

NUCLEAR POWER GENERATION 原子力発電

1. PERIOD

January 11, 1993 to March 18, 1993 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be nuclear, electrical and/or mechanical engineers presently employed at governmental institutions or private companies in the field of electric power generation (preferably, nuclear power generation)
- 3) Occupational experience of more than 3 years
- 4) Be under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Introduction of Japan's nuclear power generation
  - General features of nuclear power plant
  - Construction
  - Operation/safety management
  - Nuclear fuel cycle
- 2) Visits and observation tours
  - Nuclear power stations
  - Manufacturing plants

5. FACILITIES AND INSTITUTIONS

- 1) Japan Electric Power Information Center, Inc. (JEPIC)
- 2) The Japan Atomic Power Company (JAPC)
- 3) Agency of Natural Resources and Energy, Ministry of International Trade and Industry
- 4) Tokyo International Centre (Hatagaya), JICA

6. REMARKS



ELECTRIC POWER MANAGEMENT II 電気事業経営 II

1. PERIOD

September 10, 1992 to October 24, 1992 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) be manager-class engineers in electric power utilities with at least ten-year working experience or
- 2) be between thirty-two (32) and fifty (50) years of age,
- 3) have a sufficient command of spoken and written English, and
- 4) be in good health, both physically and mentally, to undergo the course of training.

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Marketing Activities
  - Planning of Electric Power Supply
  - Planning of Electric Power Source Development
  - Power System Operation
  - Personnel management and employee training
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Japan Electric Power Information Centre, Inc.
- 2) Chubu Electric Power Co., Ltd.
- 3) Agency of Natural Resources and Energy, Ministry of International Trade and Industry

6. REMARKS

ELECTRIC POWER DISTRIBUTION ENGINEERING 配電技術

1. PERIOD

August 25, 1992 to November 06, 1992 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

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

5. FACILITIES AND INSTITUTIONS

- 1) Agency of Natural Resources and Energy, Ministry of International Trade and Industry
- 2) Japan Electric Power Information Center, Inc.
- 3) Kansai Electric Power Co., Inc.

6. REMARKS

1. PERIOD

September 28, 1992 to December 9, 1992 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) have three years' occupational experience or more in the field of coal science and technology
- 2) be university graduates or equivalent academic background
- 3) have a sufficient command of spoken and written English
- 4) be not more than 45 years of age
- 5) be in good health, to undergo the course of training. Pregnancy is regarded as a disqualifying condition.

4. DESCRIPTION OF TRAINING

- 1) Lectures (basic & advanced)
  - Coal Geology
  - Coal Mining Engineering
  - Coal Chemistry
  - Mechanical Engineering for Coal Utilization
  - Environmental Engineering for Coal Utilization
- 2) Experimental study
- 3) Observation
  - Coal mines and factories in Hokkaido, Tokyo (Tsukuba etc.) & Kyushu

5. FACILITIES AND INSTITUTIONS

- 1) Hakozaki (Main) Camps, Faculty of Engineering and Faculty of Science, Kyushu University
- 2) Institute of Advanced Material Study, Kyushu University

6. REMARKS

**1. PERIOD**

August 25, 1992 to November 1, 1992 (2 months)

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

Five (5)

**3. QUALIFICATIONS**

Applicants should:

- 1) be university or college graduates who have basic knowledge of coal mining or the equivalent,
- 2) be mining, mining engineers, preparation engineers or other engineers concerned with coal mining industry who are presently employed at government institutions or private companies in the field of coal mining,
- 3) have more than five (5) years of practical experience,
- 4) have a sufficient command of spoken and written English,
- 5) be between approximately thirty-five (35) and forty-five (45) of age, and
- 6) be in good health, both physically and mentally, to undergo the course of training.

**4. FACILITIES**

The course will consist of the following:

- 1) Lectures on:
  - Coal Mining History of Japan and Recent Technology
  - Coal Policy of Japan
  - General and Practical Technology of
    - Coal Mining
    - Roadway Drivage
    - Coal Preparation
- 2) Observation Tours  
Visits to:
  - Main collieries - Taiheiyo, Akabira and Ikeshima
  - National Institute for Research and Environment
  - Manufacturers of Related Equipments
- 3) Presentation of Country Report
- 4) Intensive Japanese Conversation Lesson (2 weeks)

**5. FACILITIES AND INSTITUTIONS**

Japan Technical Cooperation Center for Coal Resources Development (JATEC)

**6. REMARKS**

**1. PERIOD**

May 14, 1992 to July 22, 1992 (2 months)

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

Eight (8)

**3. QUALIFICATIONS**

- 1) be college graduates or university graduates who have majored in science or technology, or those who have equivalent technical knowledge,
- 2) be working or going to work in organizations concerned with nuclear technology fields,
- 3) have a sufficient command of spoken and written English, this item will be checked strictly,
- 4) be under forty (40) years of age

**4. DESCRIPTION OF TRAINING**

## 1) Lectures

- a) Basic Subjects:  
Nuclear Physics, Nuclear Chemistry, Radiation Physics, Radiation Chemistry, Radiobiology and Biological Effects, Radiation Measurement, etc..
- b) Radiological Protection:  
Principle of Radiological Protection, Safety Handling of Radioactive Substances, Radioactive Waste Management, etc..
- c) Radiation and Radioisotope Application:  
Radiation Sources, Isotope Production and Quality Control, Applications in Industry, Applications in Agriculture, etc..
- d) Reactor Engineering:  
General Concept of Nuclear Reactors, Type of Nuclear Reactors, Nuclear Fuels and Materials, Reactor Safety, Reactor Physics, Reactor Dynamics and Control, etc..

## 2) Laboratory Exercises:

- a) Basic Experiments:  
Beta-ray Measurements, Gamma-ray Spectrometry, Neutron Measurement etc..
- b) Radiation Monitoring:  
Gamma Exposure Survey, Air-borne Activity Measurement, Surface Contamination Measurement and Decontamination etc..
- c) Radiation and Radioisotope Applications:  
Radiochemical Separation, Autoradiography, Gamma-ray Radiography, Neutron Radiography, Gamma-ray Spectroscopy, Activation Analysis etc..
- d) Reactor Engineering:  
Control Rod Calibration, Reactor Operation

## 3) Practical Exercises

## 4) Observation

**5. FACILITIES AND INSTITUTIONS**

- 1) Japan Atomic Energy Research Institute (JAERI)
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

SEMINAR ON NUCLEAR SAFETY AND REGULATION

原子力安全規制行政セミナー

1. PERIOD

October 19, 1992 to November 15, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Senior officers in charge of national nuclear safety regulation and control,
- 2) University graduates or equivalent with at least five years' experience in his/her job,
- 3) A sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

1) Lectures

- Nuclear Energy and Its Safety Administration
- Nuclear Safety Regulation in Japan
- Safety Regulations on the Application of Radiation and Radioisotopes
- Safety Regulations on the Research Reactors
- Safety Regulations of Nuclear Fuel Facilities and Transportations
- Safeguards and Physical Protection of Nuclear Materials in Japan
- Safety Regulation and Administration for Commercial Nuclear Power Plants in Japan
- Safety Regulation on the Management and Disposal of Radioactive Wastes
- Off Site Disaster Preventive Measures for Nuclear Power Plants

2) Observation and study tour

3) Presentation of Country Reports and Discussion

5. FACILITIES AND INSTITUTIONS

- 1) Nuclear Safety Bureau, Science and Technology Agency
- 2) Japan Atomic Industrial Forum
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

**GEOTHERMAL ENERGY (ADVANCED)**

地熱エネルギーアドバンス

**1. PERIOD**

August 17, 1992 to December 13, 1992 (4 months)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) be JICA ex-participants who have successfully completed the "Geothermal Energy" Course held at Kyushu University
- 2) or have been engaging in the field of geothermal energy development for three years at least
- 3) be leading staff in their organization
- 4) be over twenty-five (25) and under forty-five (45) years of age
- 5) have a sufficient command of spoken and written English,
- 6) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures (Compulsory)
  - Energy Demand and Supply in Japan
  - Fundamental Conception of Geothermal Development
  - Geothermal Geology
  - Fluid Inclusion Studies
  - Hydrothermal Geochemistry
  - Geothermics and Geothermal System
  - Geothermal Hydrology
  - Isotope Geochemistry
  - Economic Aspects of Geothermal Development
  - Direct Uses of Geothermal Energy
  - Thermodynamics
  - Heat Transfer
  - Chemical Analysis of Geothermal Fluids
  - Geochemical Exploration
  - Chemistry of Scale Formation
  - Assessment of Geothermal Resources
  - Drilling Technology
  - Geothermal Power Plant Engineering
  - Application of Pocket Calculator to Geothermal Reservoir Engineering
  - Fundamentals of Corrosion
  - Environmental Problems and Countermeasures
- 2) Experimental study
- 3) Observation

**5. FACILITIES AND INSTITUTIONS**

- 1) Geothermal Research Centre, Faculty of Engineering, Kyushu University
- 2) Hatchobaru Geothermal Power Station, Kyushu Electric Power Co., Inc.

**6. REMARKS**

No. 242

**RADIOLOGICAL PROTECTION FOR RADIATION SAFETY OFFICERS**  
**AT NUCLEAR FACILITIES**

放射線安全管理実務者

**1. PERIOD**

January 25, 1993 to March 3, 1993 (1 month)

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

Five (5)

**3. QUALIFICATIONS**

- 1) University graduates who have majored in science or technology, or those who have equivalent technical knowledge
- 2) Radiation safety officers or related officers working for organizations or facilities concerned with nuclear energy or utilization of radioisotopes
- 3) Sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures
  - A) Basic knowledge for radiation protection
  - B) Environmental monitoring, personal dosimetry and radiation measuring instruments
- 2) Laboratory exercises  
Radiation measurement practice using Ion chamber, GM counter, ZnS(Ag) counter
- 3) Field exercises  
Maintenance and calibration of radiation monitoring instruments
- 4) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Power Reactor and Nuclear Fuel Development Corporation (PNC)
- 2) Tokai Works, PNC  
O-arai Engineering Centre, PNC
- 3) Tsukuba International Centre, JICA

**6. REMARKS**





**COMMERCE AND TRADE**



1. PERIOD

January 7, 1993 to March 24, 1993 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions  
– Japanese measures pertaining to promotion of small businesses, especially particulars of development of smaller businesses and practices in financing, grouping, structural improvement and managerial/technical guidance.
- 2) Observations
- 3) Study trips

5. FACILITIES AND INSTITUTIONS

International Cooperation Service Center (ICSC)

6. REMARKS

**1. PERIOD**

October 29, 1992 to March 6, 1993 (4.5 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be such personnel assigned to business diagnostic services, management consultancy, and extension services at the organization dealing with development and promotion of small scale industries,
- 2) be university graduate or those who possess equivalent professional qualifications in this field. In addition, the basic knowledge to prepare financial statement of a business corporation is prerequisite condition for participation in this training course.
- 3) have at least three (3) year experiences of such activities as mentioned above, having already undergone the basic training on business management,
- 4) between 30 and 45 years of age
- 5) good working knowledge of English.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and Discussions:
  - General knowledge & Techniques of Business Management
  - Techniques of Conducting Diagnosis
  - Status of Small Business in Japan
  - Japanese Governments Schemes for Small Business Promotion
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Aichi Industrial Research Association
- 2) Aichi Prefectural Small Business Guidance Center
- 3) Aichi Small Scale Enterprise Promotion Corporation

**6. REMARKS**

PRODUCTION MANAGEMENT (THEORY & PRACTICE  
ON WORK IMPROVEMENT) 生産性向上技術

1. PERIOD

October 19, 1992 to March 6, 1993 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Have more than 5 years' occupational experience in the field of Production management,
- 2) be graduate from a faculty of engineering or have the equivalent academic background,
- 3) Have a sufficient command of spoken and written English,
- 4) Be under 40 years old,
- 5) Be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as disqualifying condition for the participation in the training.

4. DESCRIPTION OF TRAINING

- 1) Lecture on basic subject to improve productivity and job improvement practices on factory floors.
  - Productivity and Control Techniques
  - Typical Organization of Japanese Companies
  - Factors Affecting Productivity
  - Production Management
  - Value Engineering
  - Industrial Engineering
  - Work Improvement
  - Plant Maintenance and Total Productive Maintenance
  - Single Arrangement and Poka-Yoke
  - Two-Day Improvement Activity
  - Quality Control and Statistical Methods
  - QC Circle Activity
  - Engineering Economy
  - SE/OR
  - Computer Utilization in Enterprise
  - CAD System
  - Productivity Improvement Activity
  - Basic Production Planning
  - Employee Education
  - 20 keys (Items) to Workplace Improvement
  - QC N-7 Tools etc.
- 2) Field trips

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Toto Co., Ltd.
- 3) Yaskawa Electric Mfg. Co.,
- 4) ASA Systems Inc.
- 5) Mishima Kosan Co., Ltd., etc.

6. REMARKS

PRODUCTIVITY MANAGEMENT 実践の総合生産性向上

1. PERIOD

May 11, 1992 to July 12, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) nominated by their government in accordance with the procedures mentioned in IV-2 below
- 2) officials presently in charge of plant management in manufacturing sector in central or provincial governments or in local bodies, with five (5) or more years of experience in this field
- 3) university graduates or equivalent
- 4) proficient in spoken and written English. Experience has shown that many participants find themselves unable to make progress in their training because of inadequate knowledge of English
- 5) over thirty (30) and under forty (40) years of age
- 6) in good health to undergo the course of training. Pregnancy is regarded as a disqualifying condition.

4. DESCRIPTION OF TRAINING

- 1) the plans for improvement of plant-level productivity.
- 2) the production management techniques and application methods.
- 3) the practical methods of quality control, cost control, and delivery time control.
- 4) the skills for improvement of overall plant operations for higher productivity.

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Japan Productivity Centre

6. REMARKS

**SEMINAR SHIPBUILDING MANAGEMENT**

造船経営管理セミナー

**1. PERIOD**

September 21, 1992 to November 27, 1992 (2 months)

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

Seven (7)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent
- 2) More than 8 years occupational experience in the field of management in the governmental, public or private organizations
- 3) Between 35 and 50 years of age
- 4) Good working knowledge of English
- 5) Not serving as a military personnel

**4. DESCRIPTION OF TRAINING**

## Lectures

- a) Outline of Shipbuilding Industries and Shipbuilding Management in Japan
  - Present Situation of Shipbuilding Industries
  - Shipbuilding Related Industries
  - Ship Classification Society
  - Maritime Credit Corporation and Coastal Vessels
  - Introduction of Management Control
  - Specific Characteristics of Shipyard Management
- b) Shipyard Management and Control of Business Activities
  - Control of New Order Conclusion
  - General Conception of Financial Management
  - Business Fund and Profit Control
  - Yard Facilities Procurement and Operation Fund
  - Planning, Operation and Control of Budget
  - Cost Accounting Control
  - Analysis of Shipyard Management
  - Evaluation of Business Activities

- c) Production Control in Shipyard Management
  - Significance, Role and Problems of Design Work
  - Scheduling in Design Department
  - Quality Control in Design Work
  - Standardization
  - Material Control
  - Role of Production Department
  - Safety Control
  - Quality Control in Production
  - Production Control and Scheduling
  - Labor Management
  - Total Quality Control
  - Repair Job Site Control
- d) International Cooperation
  - Example of International Cooperation
  - Economic Cooperation Fund
- e) Announcement of Country Reports and Discussions

## Observation and Study Tour

The purpose of observation and study tour is to introduce participants systems of management and facilities of shipyards, and related industries.

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**



No. 248

INVESTMENT PROMOTION SEMINAR (1) 投資促進セミナー(1)  
(Asian Countries) (アジア諸国)

1. PERIOD

August 27, 1992 to September 30, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates or the equivalent
- 2) Officials of governmental or semi governmental organizations, or equivalent position in economic promotion organizations with occupational experience of more than five (5) years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Lectures and Discussion

Purpose: To learn Japan's overseas investment promotion policy and measures with special relevance to the organizations conducting direct investment promotion.

- a) Outline of Japan's Overseas Direct Investment
- b) Japanese Government Action to Promote Overseas Direct Investment
- c) Promotion for Overseas Direct Investment by other organizations
- d) Problems in the promotion of the overseas direct investment

Purpose: To analyze the problems hindering the international investment and search for the future plans of incentives to improve direct investment to the participants' countries.

- Legislative Problems
- Improvement of Infrastructure
- Managerial Problems in multinational Enterprises

2) Country Report

Purpose: To analyze present situation and incentive of the participants' countries and discuss the problems among participants tutored by the expert of global trade and investment problems

- a) Investment incentives in participants' country
- b) Future programs in the promotion of the overseas investment to participants' country

3) Observation Tours and Field Trips

5. FACILITIES AND INSTITUTIONS

- 1) The World Trade Centre of Japan, Inc. (WTC)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

**INVESTMENT PROMOTION SEMINAR (2)** 投資促進セミナー(2)  
**(Latin American Countries) II** (ラテンアメリカ諸国) II

**1. PERIOD**

October 22, 1992 to December 5, 1992 (1.5 months)

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

Eleven (11)

**3. QUALIFICATIONS**

- 1) University graduates or the equivalent
- 2) Officials responsible for administration of international investment in governmental or semigovernmental organizations or equivalents in economic promotion organizations with experience of more than 5 years.
- 3) Under 40 years of age
- 4) Good working knowledge of English and typing skills

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and discussions
  - a) Outline of Japan's Overseas Direct Investment and the Organizations Conducting Direct Investment Promotion
    - Ministry of International Trade and Industry (MITI)
    - The Export-Import Bank of Japan
  - b) Japanese Government Actions to Promote Overseas Direct Investment
    - JETRO's Activities
    - PAC (Project Arrangement Coordination Consulting) Program
    - Investment Consulting by the Export-Import Bank of Japan
  - c) Promotion for Overseas Direct Investment by Other Organizations
    - Private Banks
    - Local Governmental Body (Prefecture/city)
    - KEIDANREN (Japan Federation of Economic Organizations)
  - d) Problems in the Promotion of the Overseas Direct Investment
    - Japanese Financial Institutions and International Monetary Issues
    - International Economic Relationships and Cultural Differences
    - Personnel Management and Corporate Decision Making -- Working System in Japan
    - Improvement of Infrastructure
    - Project Assessment
- 2) Research Assignment  
Independent Research, Paper Presentation and writing (Theme: Selection of Potential Japanese investors through direct interviews)
- 3) Country Report  
(Report Presentation/Discussion)
- 4) Observation Tours and Field Trips)

**5. FACILITIES AND INSTITUTIONS**

- 1) World Trade Center of Japan, Inc. (WTC)
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

No. 250

**TRADE PROMOTION SEMINAR (1)** 貿易振興セミナー(1)  
**(Asian & Pacific Countries)** (アジア・太平洋諸国)

1. PERIOD

May 21, 1992 to July 4, 1992 (1.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or the equivalent
- 2) Senior officials of governmental or semi-governmental organizations in their respective field with experience of more than 5 years
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Lectures and discussions

I. Japan's trade promotion -- Past & present

Purpose: To learn the past Japanese Export Promotion Policy and measures with special relevance to their feasibility of application in participants' countries

- a) History of Japan's International Trade
- b) Japanese enterprises' effort to export
- c) Trade Insurance -- Export Insurance
- d) Trade Policy of Japan -- Past & present
- e) Aid to Export-Import
  - Japan External Trade Organization (JETRO)
  - Chamber of Commerce
  - Industrial Associations
  - Trade Financing - support to overseas investment

II. Japan as a Market

Purpose: To learn the present situation of the Japanese economy and trade, especially its characteristics as a target of export from participants' countries.

- a) Japan as a Market
- b) Personnel Management and Corporate Decision Making -- Working System in Japan
- c) Businessmen's advices for entering the Japanese Market
- d) International Economic Relations and Cultural Differences

III. Country Report (Presentation/Discussion)

- a) Japanese Financial Institutions and International Monetary Issues
- b) Development of Trade Relationships - Japan, Asia and Pacific Nations

IV. Country Report (Presentation/Discussion)

Purpose: To analyze present situation of the participants' countries and discuss the problems among participants tutored by the expert of each country

2) Assignment

Thesis preparation and writing

Title: My Private View on Trade Promotion Measures/Policies of My Own Country

3) Observation tours and Field Trips

5. FACILITIES AND INSTITUTIONS

- 1) The World Trade Centre of Japan, Inc. (WTC)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 251

**TRADE PROMOTION SEMINAR (2)**

貿易振興セミナー(2)

**(African Middle-East & Carribean Countries) II** (アフリカ・中近東・カリブ諸国)II

**1. PERIOD**

January 7, 1993 to February 20, 1993

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

Ten (10)

**3. QUALIFICATIONS**

- 1) University graduates or the equivalent
- 2) Officials of governmental or semi-governmental organizations in their respective fields with more than 5 years of practical experience in the administration of international trade.
- 3) Under 40 years of age
- 4) Good working knowledge of English and typing skills

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and discussions
  - a) Japanese Export Promotion (in the past)
    - History of Japan's International trade
    - Japanese Enterprises, Effort to Export
    - Trade Insurance-Export Insurance
    - Trade Financing
    - Administrative Guidance
    - Aid to Export (Chamber of Commerce and Industry, Industrial Associations)
  - b) Japan as a Market-1
    - Import activities of JETRO
    - Japanese Companies and Business Society
    - Personnel Management in Japan
    - Decision Making System in Japan
  - c) Japan as a Market-2
    - Marketing in Japan
    - International Marketing
    - Opening a Market
- 2) Research Assignment  
Independent Marketing Research, Paper Presentation and Writing
- 3) Country Report (Report Presentation/Discussion)
- 4) Observation tours and Field Trips

**5. FACILITIES AND INSTITUTIONS**

- 1) The World Trade Centre of Japan, Inc. (WTC)
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

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

**1. PERIOD**

September 1, 1992 to December 3, 1992 (3 months)

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

Eleven (11)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Leading officers in administration of foreign trade
- 3) No less than 26, and not more than 40 years of age
- 4) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

Lecture and practical training

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

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

No. 253 INTELLECTUAL PROPERTY RIGHTS IN TECHNOLOGY TRANSFERS

國際知的財產權

1. PERIOD

July 9, 1992 to October 10, 1992 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Senior administrators directly in charge of registration intellectual property rights or the related field in their Governments,
- 2) Professional experience of at least 5 years,
- 3) University graduates from the department of law,
- 4) Good health both physically and mentally,
- 5) Under 40 years of age,
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures, discussions, practical training
  - Industrial development and trade policies in Japan
  - Intellectual properties and contracts
  - Legal problems related to international trade and technology transfer
  - Japanese legal system on technology trade
  - Patent act, utility model act, design act, patent act, copyright act, act providing special provisions for registration of program works, act concerning the layout of a semiconductor integrated circuit
  - Practical exercises of entering into technology contract in international trade
- 2) Observations and study tours
  - Status quo of technology contracts in Japan
  - Observations and case studies at private companies in various fields

5. FACILITIES AND INSTITUTIONS

Kyoto Comparative Law Center

6. REMARKS



**TOURISM**





**1. PERIOD**

October 5, 1992 to November 22, 1992 (2 months)

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

Eighteen (18)

**3. QUALIFICATIONS**

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

**4. DESCRIPTION OF TRAINING**

## 1) Lectures

## a) Japanese Tourism Policy and Administration

- Government Policy and Measures
- Tourism Laws and Regulations
- Official Development Assistance

## b) Japanese Tourism Industries and Their Activities

- Travel Agency Business
- Hotel and Ryokan (Japanese-style Hotel) Business
- Tourist Guide Business
- Transportation Business (Airline Business, Cruise Business, etc.)

## c) Japanese Inbound Promotion Activities by NTO

## d) Promotion Activities towards Japanese Travel Market

- Basic Characteristics of Japanese Travel Market
- Promotion Activities by Foreign NTO

- 2) Presentation and Discussion of Country Report
- 3) Observation and Study Tour

**5. FACILITIES AND INSTITUTIONS**

- 1) Tourism Department, Ministry of Transport
- 2) International Tourism Development Institute of Japan (ITDIJ)
- 3) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**



## HUMAN RESOURCES



1. PERIOD

October 22, 1992 to April 25, 1993

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) be presently engaged directly or indirectly in JICA's cooperation programme,
- 2) be under thirty (30) years of age,
- 3) have a sufficient command of both spoken and written English, and
- 4) be in good health, both physically and mentally, to undergo the course of training. Pregnancy is regarded as a disqualifying condition for the participation in the course.

4. DESCRIPTION OF TRAINING

- 1) Elementary lessons Book 1 ~ 3
  - Writing practice
  - Pronunciation
  - Vocabulary
  - Basic grammar
- 2) Intermediate lessons Book 4 ~ 5
  - Strengthening and enlarging conversation skills
  - Strengthening reading and comprehension skills
  - Training for composition skills
- 3) Speech contest
- 4) Field trip
- 5) Final production

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

INTENSIVE JAPANESE LANGUAGE (B) 日本語専修(B)

1. PERIOD

September 24, 1992 to May 24, 1993

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) be presently engaged directly or indirectly in JICA's cooperation programme,
- 2) be under thirty (30) years of age,
- 3) have a sufficient command of both spoken and written English, and
- 4) be in good health, both physically and mentally, to undergo the course of training. Pregnancy is regarded as a disqualifying condition for the participation in the course.

4. DESCRIPTION OF TRAINING

- 1) Elementary lessons Book 1 ~ 3
  - Writing practice
  - Pronunciation
  - Vocabulary
  - Basic grammar
- 2) Intermediate lessons Book 4 ~ 6
  - Strengthening and enlarging conversation skills
  - Strengthening reading and comprehension skills
  - Training for composition skills
  - Practical training for conversation and composition skills
- 3) Speech contest
- 4) Field trip
- 5) Final production

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC)

6. REMARKS

1. PERIOD

May 14, 1992 to August 30, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Having one (1) to three (3) years of experience in media production for educational/instructional purposes
- 3) Under thirty-five (35) years of age
- 4) Proficient in spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Basic photographing
- 2) Audio Production Methodology
- 3) Basic Slide Production
- 4) Slide Production Methodology
- 5) Sound Slide Production Methodology
- 6) Production of Multi Media Package
- 7) Multi Media Package Presentation
- 8) Observation Tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS



1. PERIOD

September 10, 1992 to February 26, 1993 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Having two (2) to five (5) years of experience in video program production for educational/instructional purposes
- 3) Under thirty-five (35) years of age
- 4) Proficient in spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Outline of Video (in comparison with other Audio Visual Media)
- 2) Basics of Video Material Production
- 3) Video Programme Production with Single Camera
- 4) A/B Roll Editing
- 5) Animation
- 6) Production of Multi-Media Package
- 7) Observation Tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

AUDIO VISUAL TECHNOLOGY 視聽覺技術

1. PERIOD

February 18, 1993 to June 6, 1993 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Have two (2) to six (6) years of experience as the design and management personnel of audio visual media program
- 3) Be not more than forty (40) years of age
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures on basic theories of media communication and media strategy
- 2) Case study on audio visual media programs (Research)
- 3) Lecture and exercises on various AV media planning
- 4) Observation trip for the study of AV media utilization
- 5) Practical training on basic production skills of educational AV materials

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

TRAINING SPECIALIST FOR SUPERVISORS (SEMINAR) II

監督者訓練専門家セミナー II

1. PERIOD

May 25, 1992 to July 19, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) university graduate or equivalent
- 2) a training specialist concerned with planning and conducting the training for foremen and other first line supervisors of manufacturing industries
- 3) more than one year's working experience in the said field and expected to work in the same field in the future
- 4) between 30 and 45 years of age
- 5) good working knowledge of English
- 6) in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for the participants in the course.

4. DESCRIPTION OF TRAINING

- 1) Lecture and Discussion
  - Outline of human resources development in Japan  
Purpose: To study economic, social and historical background, and present situations of human resources development in Japan
  - The Training for Supervisors in Japan  
Purpose: To study the methods of the training for supervisors and other in-plant training
- 2) Observation Tour
- 3) Country reports presentation

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

TRAINING MANAGEMENT IN VOCATIONAL TRAINING  
INSTITUTIONS (SEMINAR) 職業訓練管理セミナー

1. PERIOD

August 24, 1992 to October 18, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Presently engaged in management of a vocational training institution and be expected to work in the same field in future
- 2) Between 30 and 50 years of age
- 3) Good working knowledge of English
- 4) In good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for the participants in the seminar.

4. DESCRIPTION OF TRAINING

- 1) Lecture and Discussion
  - Human Resources Development in the field of Vocational Training
  - Management and Administration of Vocational Training Institution and Facilities
- 2) Country reports presentation
- 3) Observation Tour

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

No. 262

**HUMAN RESOURCES DEVELOPMENT ADMINISTRATION (SEMINAR)**

職業能力開発行政セミナー

**1. PERIOD**

November 9, 1992 to December 17, 1992 (1.5 months)

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

Fifteen (15)

**3. QUALIFICATIONS**

- 1) A director of the department in a central office or equivalents, presently engaged in the human resources development administration
- 2) Between 35 and 50 years of age
- 3) Good working knowledge of English
- 4) In good health both physically and mentally to undergo the seminar. Pregnancy is regarded as a disqualifying condition for participants in the seminar.

**4. DESCRIPTION OF TRAINING**

1) Lecture & Discussion

- Outline of human resources development administration in Japan

Purpose: To study the human resources development administration and its peripheral methods.

- Outline of contemporary labour situation in Japan

Purpose: To study economic, social and historical background, and present situations of human resources development administration in Japan

2) Observation Tour

3) Country Reports Presentation

4) Comprehensive study

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

**HIGH TECHNOLOGY RESEARCH** ハイテク・リサーチ

- [A] Trial Construction of CAI Ware for Electronic Circuitry and Control Technics on a Target Machine of Micro-Robot Mouse
- [B] Calculation of the Potential and Electric Distribution in Conductive Materials

**1. PERIOD**

July 27, 1992 to February 21, 1993 (7 months)

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

[A] Three (3), [B] Two (2)

**3. QUALIFICATIONS**

- 1) be presently engaged in computer & electronic engineering field at university, research institute or vocational training college as a professor,
- 2) be graduates from the faculty of engineering at university or graduate school,
- 3) have at least five (5) years for Bachelor degree holder, three (3) years for Master degree holder of occupational experience in the field,
- 4) have a sufficient command of spoken and written English, or Japanese,
- 5) be not more than thirty-five (35) years of age,
- 6) [A] have appropriate knowledge on electronic circuitry, also BASIC language, C language and ASSEMBLA language, and be able to make programmes freely in these languages.  
[B] have appropriate knowledge on Partial Derivatives, also FORTRAN language and be able to make programmes freely in this language, and have some experiences on computer graphics.
- 7) have specific knowledges on the theme mentioned and be able to study of his own accord.

**4. DESCRIPTION OF TRAINING**

- 1) Research
- 2) Report making
- 3) Study Tour

**5. FACILITIES AND INSTITUTIONS**

- 1) Hachioji International Training Centre, JICA
- 2) The Institute of Vocational Training (IVT), Ministry of Labour

**6. REMARKS**

There will be an intensive Japanese language course, conducted prior to the technical training (1 month, 100 hours)

No. 264-1

**VOCATIONAL TRAINING INSTRUCTORS (ELECTRICAL ENGINEERING) II**

職業訓練指導員(電気工学)Ⅱ

**1. PERIOD**

June 8, 1992 to March 21, 1993 (10 months)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) Be presently engaged in electrical engineering field at university, research institute or vocational training centre as professor, engineer or teacher
- 2) Be university graduates with three (3) years of occupational experience in this field
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture on Specialized Subject
  - Theory of Electrical Machinery
  - Designing Electrical Machinery
  - Illumination Engineering
  - Power Electronics and Control of Servomotors
  - Introduction to Computer Programming
  - Electrical Measurement
  - Electrical Power Engineering
  - General Concept of Automatic Control
  - Design of Wiring Works
  - Electrical Wiring Construction
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

There will be an intensive Japanese Language Course (1 month, 125 hours), conducted prior to the technical training.

No. 264-2

**VOCATIONAL TRAINING INSTRUCTORS (ARCHITECTURAL ENGINEERING)**

職業訓練指導員（建築工学）

**1. PERIOD**

June 8, 1992 to March 21, 1993 (10 months)

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

Five (5)

**3. QUALIFICATIONS**

- 1) Be presently engaged in architectural engineering field at university, research institute or vocational training centre as a professor, engineer or teacher
- 2) Be university graduates with three (3) years of occupational experience in this field
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture on Specialized Subject
  - History of Architecture
  - Building Legislation
  - Indoor Environmental Engineering
  - Building Materials
  - Reinforced Concrete Engineering
  - Building Equipment
  - Wooden Construction Methods
  - Architectural Presentation Techniques
  - Building Construction and Management
  - Building Construction
  - City Planning
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

There will be an intensive Japanese Language Course (1 month, 125 hours), conducted prior to the technical training.



**VOCATIONAL TRAINING INSTRUCTORS (ELECTRONIC ENGINEERING) II**

職業訓練指導員(電子工学)II

**1. PERIOD**

June 8, 1992 to March 21, 1993 (10 months)

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

Eight (8)

**3. QUALIFICATIONS**

- 1) Be presently engaged in electronic engineering field at university, research institute or vocational training centre as professor, engineer or teacher,
- 2) Be university graduates with three (3) years of occupational experience in this field
- 3) Between 25 and 40 years of age
- 4) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture on Specialized Subject
  - TV Engineering
  - Semiconductor IC Technology
  - Electronic Computer
  - Electronic Components
  - Electronic Circuits
  - Electronic Measurements
  - Automatic Control
  - Digital Electronic Circuits
  - Radiowave propagation and Antennas
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

There will be an intensive Japanese Language Course (1 month, 125 hours), conducted prior to the technical training.

No. 264-4

**VOCATIONAL TRAINING INSTRUCTORS**  
**(MECHANICAL ENGINEERING FOR INDUSTRY)**

職業訓練指導員（産業機械工学）

**1. PERIOD**

June 8, 1992 to March 21, 1993 (10 months)

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

Eight (8)

**3. QUALIFICATIONS**

- 1) be presently engaged in automotive engineering field at university, research institute or vocational training centre as professor, or teacher,
- 2) be university graduates with at least three (3) years of occupational experience in this field,
- 3) have a sufficient command of spoken and written English,
- 4) be not less than twenty-five (25), and not more than forty (40) years of age

**4. DESCRIPTION OF TRAINING**

- 1) Lecture on Specialized Subject
  - Internal Combustion Engines
  - Strength of Material
  - Refrigeration and Heat Transfer
  - Automotive Engineering
  - Thermodynamics and Heat Transfer
  - Elements of Welding Procedure
  - Automotive Mechanism
  - Vibration Problems in Engineering
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

There will be an intensive Japanese Language Course (1 month 125 hours), conducted prior to the technical training.

**VOCATIONAL TRAINING INSTRUCTORS**  
**(MECHANICAL ENGINEERING FOR PRODUCTION)**

職業訓練指導員（生産機械工学）

**1. PERIOD**

June 8, 1992 to March 21, 1993 (10 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be presently engaged in mechanical engineering field at university, research institute or vocational training centre as professor, or teacher,
- 2) be university graduates with at least three (3) years of occupational experience in this field,
- 3) have a sufficient command of spoken and written English,
- 4) be not less than twenty-five (25), and not more than thirty-five (35) years of age

**4. DESCRIPTION OF TRAINING**

- 1) Lecture on Specialized Subject
  - Machining Technology
  - Die Engineering
  - Energy Beam Processing
  - Precision Measurement
  - Strength of Materials
  - Plastic Working
  - Design of Mechanical Element
  - Materials for Mechanical Engineering
  - N. C. Equipment
  - Material Testing
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

There will be an intensive Japanese Language Course (1 month 125 hours), conducted prior to the technical training.

No. 264-6

VOCATIONAL TRAINING INSTRUCTORS (PRODUCTS DESIGN  
AND WOOD WORK ENGINEERING) 職業訓練指導員(造形工学)

1. PERIOD

June 8, 1992 to March 21, 1993 (10 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) be presently engaged in industrial design engineering field at university, research institute or vocational training centre as professor, or teacher,
- 2) be university graduate with at least three (3) years of occupational experience in this field,
- 3) have a sufficient command of spoken and written English,
- 4) be not less than twenty-five (25), and not more than forty (40) years of age,

4. DESCRIPTION OF TRAINING

- 1) Lecture on Specialized Subject
  - Materials for Woodworking, Gluing and Plywood
  - Design, Drawing and Furniture Construction
  - Wood working System in Production
- 2) Practical Training in Private Firms
- 3) Factory Observation and Field Trip

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

There will be an intensive Japanese Language Course (1 month, 125 hours), conducted prior to the technical training.



**SCIENCE AND CULTURE**



REMOTE SENSING TECHNOLOGY (FUNDAMENTAL)

リモート・センシング技術(基礎)

1. PERIOD

May 5, 1992 to July 9, 1992 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be university graduates, or the equivalent with a fundamental knowledge of physics and mathematics,
- 2) be researchers or engineers in remote sensing application fields, such as country planning, agriculture, forest management and mapping,
- 3) be preferably under thirty-five (35) years of age,
- 4) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Remote Sensing Activities in Japan
    - Japanese Space Activities -
    - Overview of Remote Sensing Activities in Japan -
  - General Introduction
    - Basic Principles of Remote Sensing -
  - Remote Sensing, as a Tool for Agriculture Resource Management
  - Remote Sensing Application in Geological Survey
  - Japanese Ground Station for Earth Observation Satellites
  - Data Processing of Meteorological Satellite
  - Image Processing System
  - Sensor & Platforms
  - Outline of the Observation Satellites
  - Geometric Correction Theory and Technology
  - Global Monitoring Information
- 2) Practice
  - Personal Computer System and Programming for Image Processing
  - Geometric Correction Theory and Technology
  - Image Analysis with a Personal-Computer
  - Digital Image Analysis
- 3) Ground Truth Investigation
- 4) Field Evaluation
- 5) Report Making
- 6) Observation Tours
- 7) Country Report Presentation
- 8) ISPRS COMMISSION IV
  - International Symposium on Cartographic and Data Base Applications of Photogrammetry and Remote Sensing

5. FACILITIES AND INSTITUTIONS

Remote Sensing Technology Center of Japan (RESTEC)

6. REMARKS



1. PERIOD

April 9, 1992 to October 5, 1992 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Master's degree or bachelor's degree with as much academic knowledge and technical experience as the former, and have majored in chemistry, biochemistry, agricultural chemistry, food chemistry or applied microbiology
- 2) Three (3) or more years of experience in fermentation technology or enzyme technology
- 3) Between 25 and 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and experimental training
  - Purification of enzymes
  - Properties of enzyme
  - Study of enzymes
  - Application of enzymes
  - Individual Study
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Osaka Municipal Technical Research Institute (OMTRI)

6. REMARKS

**MEDICAL AND BIOLOGICAL APPLICATION OF RADIATION AND RADIOISOTOPES**  
**(NUCLEAR MEDICINE)**

アイソトープ・放射線の医学・生物学利用

**1. PERIOD**

August 25, 1992 to October 4, 1992 (1.5 months)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) be licensed physicians authorized by their governments
- 2) be under forty (40) years of age, and have clinical experience in nuclear medicine,
- 3) be engaged in the same field after returning to their countries (Both governmental and non-governmental employees can be applicants.).

**4. DESCRIPTION OF TRAINING**

- 1) Lectures
  - Basic Nuclear Medicine
  - In Vivo Nuclear Medicine
  - Other Imaging Modalities, etc.
- 2) Clinical Study and Training
- 3) Study Tour

**5. FACILITIES AND INSTITUTIONS**

- 1) National Institute of Radiological Sciences
- 2) Tokyo International Centre (Hatagaya), JICA
- 3) Nuclear Safety Research Association

**6. REMARKS**

**1. PERIOD**

January 5, 1993 to May 23, 1993 (5 months)

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

Eight (8)

**3. QUALIFICATIONS**

Applicants should:

- 1) be presently engaged in research work and have more than four (4) years of occupational experience in this field,
- 2) be university graduates or have the equivalent academic background,
- 3) have a sufficient command of spoken and written English,
- 4) be not less than twenty-six (26), and not more than forty (40) years of age,

**4. DESCRIPTION OF TRAINING**

- 1) Lecture
  - a) General view on biotechnology  
General view on genetics  
General view on biology  
Structures and functions of genes  
Gene manipulation, etc.
  - b) Present situation of application of biotechnology  
General view on food chemistry  
General view on chemistry and technology of agricultural products  
General view on fermentation technology  
General view on pesticide science  
Screening and collection of plant genes  
Introduction to biological catalysts, etc.
- 2) Experiment and practice
  - a) Biotechnology utilizing microorganisms  
Screening of microorganisms from nature and their identification
- 3) Observation tour  
Sake brewing companies, sugar refinery companies, food companies in the traditional biotechnology field and factory-style plant producing companies, protected agricultural fields, gene banks, biotechnological production institutes, etc.

**5. FACILITIES AND INSTITUTIONS**

- 1) Faculty of Agriculture, Kobe University
- 2) Biotechnology Laboratory, Hyogo Prefectural Agricultural Institute
- 3) Hyogo International Centre, JICA

**6. REMARKS**

**1. PERIOD**

June 4, 1992 to July 28, 1992 (2 months)

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

Six (6)

**3. QUALIFICATIONS**

- 1) Presently have the promising position in science education field as a teacher of secondary school or researcher in institute/university/college
- 2) University graduates or have an equivalent academic background (14 years school career)
- 3) Proficient in spoken and written English. Report shows that many participants find themselves unable to make progress in this training because of inadequate knowledge of English
- 4) Not more than thirty five (35) years of age
- 5) In good health to undergo the training. Pregnancy is regarded as a disqualifying condition.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and Practical Training:
  - Basic Principle of Science
  - Practice Concerning Physics
  - Practice Concerning Chemistry
  - Practice Concerning Biology
  - Practice Concerning Earth Science
  - Practice Concerning Education Technology  
(Include Computer Operating)
- 2) Study Tour
  - Typical Natures in Japan  
(Volcano, Hot Spring, Stalactite grottos, etc.)
  - Educational Facilities  
(Science museum, Automobile Factory, etc.)

**5. FACILITIES AND INSTITUTIONS**

Hiroshima University

**6. REMARKS**



## MEDICAL TREATMENT



**1. PERIOD**

June 8, 1992 to October 11, 1992 (4 months)

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

Eighteen (18)

**3. QUALIFICATIONS**

- 1) Medical officers who are engaged in the national tuberculosis control programme, preferably having, or going to have, a leading role in the programme, excluding those who are engaged in pure clinical work
- 2) A sufficient command of spoken and written English
- 3) Between 30 and 45 years of age
- 4) In good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for the participants in the course.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Statistics
  - Epidemiology
  - General concept of tuberculosis
  - Basic science of tuberculosis
  - Preventive measures in the tuberculosis control
  - Diagnostic measures in the tuberculosis control
  - Curative measures in the tuberculosis control
  - Management of National Tuberculosis control programme
  - AIDS and TB control
  - WHO and its role in the tuberculosis control and research
  - Role of voluntary organizations and activities in the tuberculosis control programme
  - Primary Health Care
- 2) Observation tours  
In the third country (Korea or Malaysia) and WHO collaboration (from October 12, 1992 to October 27, 1992)

**5. FACILITIES AND INSTITUTIONS**

- 1) Hachioji International Training Centre, JICA
- 2) The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association (JATA)

**6. REMARKS**

Japanese Language Course is arranged for two weeks.



No.271

**TUBERCULOSIS CONTROL FOR ADMINISTRATIVE  
MEDICAL OFFICERS** 結核対策指導者

**1. PERIOD**

May 11, 1992 to June 28, 1992 (1.5 months)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) Medical officers who are in charge of tuberculosis control programme of a certain administrative level, most preferably ex-participants of training courses in tuberculosis control with about 5 years field experience after the previous course
- 2) A sufficient command of spoken and written English
- 3) Between 35 and 55 years of age
- 4) In good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for the participants in the course.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures, seminars, group discussions and workshops:
  - Recent advances in TB control
  - Progress and problems in the participants' National TB programmes
  - National TB epidemiology
  - Evaluation of National TB programmes
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Hachioji International Training Centre, JICA
- 2) The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association (JATA)

**6. REMARKS**

**LABORATORY WORKS FOR TUBERCULOSIS CONTROL** 結核対策細菌技術

**1. PERIOD**

September 28, 1992 to February 14, 1993 (4.5 months)

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

Five (5)

**3. QUALIFICATIONS**

- 1) Senior technicians or medical doctors who are responsible for the management of laboratory works in TB control program in the region/country
- 2) Those who are responsible for the training of health personnel in laboratory works for tuberculosis control
- 3) Between 50 years and 26 years of age
- 4) Good working knowledge of English
- 5) In good health both physically and mentally, to undergo the seminar. Pregnancy is regarded as a disqualifying condition for participation in the course.

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and practical training
  - Tuberculosis control programme
  - Role of laboratory works in tuberculosis control programme
  - Accuracy control of laboratory examinations
  - Laboratory data control
  - Present status and problems in the laboratory works in tuberculosis control programmes of participants' countries
  - Essential experiences as a leading bacteriologist on laboratory techniques and methods for tuberculosis control
  - Maintenance and manipulation of microscope and other laboratory equipments
  - Principles of planning and establishment of bacteriological laboratories at various conditions
  - Principles of training method of laboratory techniques
  - Modern techniques useful for bacteriological laboratories for tuberculosis control
  - Visits to laboratories and institutions
  - Organization of laboratory services
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

- 1) Hachioji International Training Centre, JICA
- 2) The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association (JATA)

**6. REMARKS**

Japanese Language Course is arranged for three weeks.

1. PERIOD

August 31, 1992 to November 29, 1992 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Licenced physicians with occupational experience of more than 2 years in diagnosis and treatment of cancer
- 2) Under 35 years of age
- 3) Engaged in the same field after return to the country
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - Outline of cancer control in Japan
  - Fundamental research on cancer
  - Clinical Pathology
  - Biochemistry and immunology
  - Endocrinology
  - Chemotherapy
  - Diagnosis and treatment of cancer
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Cancer Center
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

EARLY GASTRIC CANCER DETECTION AND RELATED  
DIGESTIVE TUMORS II

早期胃癌診断 II

1. PERIOD

January 11, 1993 to March 11, 1993 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Sixteen (16)

3. QUALIFICATIONS

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

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
  - General radiology
  - Endoscopy
  - Histopathology
  - Chemotherapy
  - Echography
  - Diagnosis of cancer of the liver
  - Diagnosis of cancer of the pancreas, gallbladder and case studies
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Foundation for Detection of Early Gastric Carcinoma

6. REMARKS

**BLOOD TRANSMITTED DISEASES, (Special Reference to  
AIDS, ATL & Hepatitis)**

血液由来感染症

**1. PERIOD**

June 22, 1992 to August 3, 1992 (1 month)

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

Twelve (12)

**3. QUALIFICATIONS**

- 1) have a license physicians' authorized by their government
- 2) to hold relatively senior position and be engaged in the field of BTB
- 3) be not more than 40 years old
- 4) have a sufficient command of spoken and written English\*

\* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.

**4. DESCRIPTION OF TRAINING**

## 1) Lectures (6.0 days)

## a) AIDS &amp; ATL

- Virology of HIV and HTLV-I
- Epidemiology and Control of AIDS
- Clinical Features Diagnosis of AIDS
- Treatment of AIDS
- Epidemiology of ATL
- Clinical Features and Diagnosis of ATL
- Treatment of ATL
- HTLV-I Associated Myelopathy (HAM)
- Infection of HTLV-I by Blood Transfusion
- Maternal Transmission of HTLV-I to Child
- HTLV-I and Related Disorders
- AIDS in Japan and its Control

## b) Hepatitis B and Hepatitis C

- Virology of Hepatitis
- Pathology of Viral Hepatitis
- Vaccine and Viral Hepatitis
- Viral Hepatitis
- Clinical Features of Hepatitis B and C
- Diagnosis of Hepatitis B
- Epidemiology and Control of Hepatitis B and C

- Treatment of Hepatitis B
- Hepatitis C
- Liver Cirrhosis and Hepatoma

## 2) Special Lectures (0.5 day)

- Communicable Disease Control Programme in the Area of International Cooperation
- Discovery of ATL

## 3) Practice (3.75 days)

- Screening of HTLV-I and HTLV-III Virus
- Blood Morphology of ATL
- HTLV-I Associated Myelopathy (HAM)
- Hepatitis C
- Screening of HBs-Ag, HBs-Ab, HC-Ab

## 4) Case Conference (0.25 day)

## 5) Field Trips (4.5 days)

## 6) Discussion and Group Study (4.0 days)

**5. FACILITIES AND INSTITUTIONS**

- 1) Agency for Cooperation in International Health
- 2) Kumamoto National Hospital

**6. REMARKS**

No. 276

CLINICAL TRAINING FOR PATIENTS CARE OF INFECTIOUS DISEASES

感染症患者臨床研修

1. PERIOD

January 11, 1992 to March 31, 1992 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) be licensed physicians authorized by their governments, and have clinical experience of more than three years,
- 2) have a sufficient command of spoken and written English,
- 3) be between 27 and 32 years of age,

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - National policy on infectious diseases control in Japan
  - Pharmaceutical administration
  - Vaccination System
  - General aspects of infectious diseases
  - Hospital-acquired infectious diseases
  - Disinfection, sterilization and aseptic procedure
  - Management of patients with infectious diseases
  - Aseptic care in the field of nursing
  - Diagnostic examination of infectious diseases
  - Bio-clean room
  - Tuberculosis and leprosy control in Japan
  - Antibiotics, anti-viral and anti-fungal agents
  - Blood-borne diseases
  - Hepatitis
  - Sexually transmitted diseases (STD)
  - Isolation of patients
- 2) Visit to other facilities

5. FACILITIES AND INSTITUTIONS

- 1) The National Medical Centre Hospital
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

**MANAGEMENT OF REAGENTS & CULTURE MEDIA IN  
DIAGNOSIS OF INFECTIOUS DISEASES** 感染症の試薬及び培地の確保と管理

**1. PERIOD**

November 2, 1992 to April 18, 1993 (6.5 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be a medical doctor or have a baccalaureate on Pharmacology, Agriculture, and Biology and at the same time, a manager of middle level or above. The work should be related to this training course.
- 2) have a sufficient command of spoken and written English\*
- 3) be not more than 45 years old

*\*For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.*

**4. DESCRIPTION OF TRAINING**

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1) Basic Lecture (17.75 days)           <ul style="list-style-type: none"> <li>-- Production of Antiserum, Antigen and Toxin</li> <li>-- Serological Diagnosis of Toxic Diseases</li> <li>-- Quality Control of Antisera, Antigens and Toxins</li> <li>-- Arrangement of Bacteriological Culture Media</li> <li>-- Quality Control of Biological Products</li> <li>-- Safety Control of Microbiological Experiments</li> <li>-- The Use of Reagents for the Diagnosis of Infectious Diseases</li> <li>-- Delivery System of Diagnostic Immunesera, Culture Media, Diagnostic Antisera and Other Reagents</li> <li>-- Introduction of Bacteriology</li> <li>-- Bacteriology</li> <li>-- Virus</li> <li>-- Antibiotics sensitivity test</li> <li>-- Toxicity Test</li> <li>-- Food Hygienic Test</li> <li>-- Water Hygienic Test</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li>2) Special Lecture (3.75 days)           <ul style="list-style-type: none"> <li>-- Control of Infectious Diseases in the Developing Countries</li> <li>-- Some Aspects on Recent Bacterial Infectious Diseases</li> <li>-- Supply of Reagents for the Control of Infectious Diseases</li> <li>-- Bacterial Toxins</li> <li>-- Official Approval for Vaccine</li> <li>-- Management of Reagents and Culture Media</li> </ul> </li> <li>3) Practice (65 days)           <ul style="list-style-type: none"> <li>-- Sterilization, Stains</li> <li>-- Production of Antiserum for Laboratory Diagnosis (V. Cholera, E. Coli, Salmonella) Drug Susceptibility</li> <li>-- Isolation and Identification of Bacteria</li> <li>-- Isolation and Identification of Viruses, and Others</li> <li>-- Production of Culture Media, Control of Reagents</li> <li>-- Quality Control and Delivery of Reagents and Culture Media</li> </ul> </li> <li>4) Group Discussion/Work, Free Discussion (4.25 days)</li> <li>5) Field Trips (10 days)</li> </ol> |
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**5. FACILITIES AND INSTITUTIONS**

- 1) Agency for Cooperation in International Health
- 2) Kumamoto Prefectural Institute of Public Health
- 3) Kumamoto Municipal Institute of Public Health
- 4) Kumamoto University Medical School
- 5) The Chemo-Sero-Therapeutic Research Institute

**6. REMARKS**

ADVANCED MICROBIAL DISEASES STUDY 上級微生物病研究

1. PERIOD

September 3, 1992 to July 31, 1993 (11 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) Master's or doctor's degree holder or having equivalent knowledge in microbial diseases, or ex-participants the JICA Group Training Course in Microbial Diseases
- 2) Under forty-five (45) years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

The latest information and the most advanced techniques in the field of Microbiology, Virology, Parasitology, Molecular Biology, Genetic Engineering, etc. will be provided through individual study, practical training, observation and study tours. This course is intended for senior researchers of microbial diseases who have experience of at least 5 years in their specialized field.

5. FACILITIES AND INSTITUTIONS

Research Institute for Microbial Diseases, Osaka University

6. REMARKS



PEDIATRICS AND PEDIATRIC SURGERY 小兒専門医療

1. PERIOD

February 15, 1992 to June 20, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Licensed physicians authorized by their government
- 2) Under 35 years of age, and have occupational experience of more than two years in pediatrics or pediatrics surgery
- 3) Engaged in the same field after return to their countries
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

1) Lectures

- a) General Pediatrics
- b) Pediatrics
- c) Pediatrics Surgery

(All participants are requested to have lectures on selected subjects in Pediatrics and Pediatrics Surgery irrespective of their own speciality.)

2) Clinical Training on Diagnosis and Treatment

- a) Basic Training
- b) Pediatrics
- c) Pediatrics Surgery

(All Participants are requested to select either Pediatrics or Pediatrics Surgery.)

5. FACILITIES AND INSTITUTIONS

- 1) National Children's Hospital
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

**SEMINAR ON POLIO ERADICATION, ITS THEORY AND PRACTICE**  
**(FOR PERSONS ENGAGED IN E.P.I)** 小児麻痺根絶計画の理論と実際

**1. PERIOD**

October 12, 1992 to November 30, 1992 (2 months)

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

Seven (7)

**3. QUALIFICATIONS**

- 1) be a medical doctor and at the same time, a manager responsible for the national polio eradication programme or a person of equivalent position
- 2) have a sufficient command of spoken and written English
- 3) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.
- 4) be not more than 50 years old.

**4. DESCRIPTION OF TRAINING**

- 1) Basic Lectures
  - Virology, Epidemiology, Pathology, Diagnosis and Clinical Features of Poliomyelitis
  - Quality Control of Polio Vaccine
  - Practice, Record and Analysis of Surveillance and its Feedback
- 2) Special Lectures
- 3) Symposium on Factors of Success in Polio Eradication Programme
- 4) Programme Management
  - Surveillance for Poliomyelitis Eradication
  - Polio Eradication Information Systems and Evaluation
  - Polio Eradication Programme and EPI in Brazil
- 5) Case Study
  - Analysis of History of the Past Eradication Programmes
  - Elements Needed for the Success of Polio Eradication Programme
- 6) Simulation of Field Action, Management of Field Programme
- 7) Field Trips
  - The Chemo-Sero Therapeutic Research Institute, Kumamoto
  - Japan Poliomyelitis Research Institute, Tokyo
  - National Institute of Health, Tokyo
  - Research Institute for Microbial Disease, Osaka Univ.

**5. FACILITIES AND INSTITUTIONS**

- 1) Agency for Cooperation in International Health,
- 2) Education and Training Institute, Kumamoto Hospital,
- 3) Kumamoto University Medical School,
- 4) Chemo-Sero-Therapeutic Research Institute,
- 5) Department of Public Health and Hygiene, Kumamoto Prefectural Government

**6. REMARKS**

TECHNOLOGY FOR NEONATAL AND INFANTILE SCREENING

新生児・乳児マス・スクリーニング検査技術

1. PERIOD

November 19, 1992 to February 15, 1993 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

Applicants should

- 1) be medical doctor or have a doctorate in medical science and also be planning to organize neonatal and infantile screening
- 2) have a sufficient command of both spoken and written English
- 3) be under 40 years of age
- 4) be in good health, both physically and mentally, to pursue the study. Prognancy is regarded as disqualifying condition for participation in the course.

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - General remarks
  - Diagnosis and treatment
  - Testing methods
  - Quality control and quality assurance
  - Data processing by micro-computer
- 2) Practice
  - Inborn errors of metabolism  
(phenyl ketonuria, homocystinuria, maple sylop urine disease, galactosemia)
  - Congenital hypothyroidism and congenital adrenal hyperoplasia
  - Neuroblastoma
- 3) Observations
  - Hokkaido University, Sapporo Medical College and National Sapporo Hospital in which diagnosis and treatment are conducted
  - Another screening centers in Japan

5. FACILITIES AND INSTITUTIONS

Sapporo City Institute of Public Health

6. REMARKS

1. PERIOD

April 20, 1992 to August 3, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be dentists who have three years' professional or academic experience or more in the field of academic institution, health administration or practice.
- 2) be presently engaged or expected to be working on their return in this line.
- 3) be not more than 40 years old.
- 4) have a sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

- 1) Dental Care Delivery System and Dental Public Health Service in Japan.
- 2) Dental Care for Children and Adolescent
- 3) Dental Caries
- 4) Periodontal Disease
- 5) Prosthetics
- 6) TMJ Arthrosis
- 7) Oral Cancer
- 8) Cleft Lip and Palate
- 9) Dental Materials and Clinical Practices in the Up-To-Date Dental Medicine
- 10) Advancement in Basic Dentistry
- 11) Supplementary Study at the Department of Applicant's Speciality
- 12) Presentation of Out-come Acquired by Each Participant through the Course

5. FACILITIES AND INSTITUTIONS

Faculty of Dentistry, Kyushu University

6. REMARKS

1. PERIOD

January 7, 1993 to July 22, 1993 (7 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Experience of more than 2 years in radiography at medical organizations with fundamental knowledge of physiology
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Fundamental theories in radiography
  - Radiation physics
  - Photographic chemistry
  - Medical X-ray engineering
  - Radiation control and radiation measurement
  - Radiography technique
  - Radiation picture
  - Computer
  - Radiation diagnosis
- 2) Clinical practice on radiography
- 3) Observations
- 4) Study trips

5. FACILITIES AND INSTITUTIONS

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

6. REMARKS

**1. PERIOD**

October 28, 1992 to February 20, 1993 (4 months)

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

Eighteen (18)

**3. QUALIFICATIONS**

- 1) University graduates or equivalent,
- 2) Occupational experience of more than 5 years in their profession,
- 3) Be presently engaged in practices of clinical laboratory or radiology,
- 4) Under forty (40) years of age,
- 5) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Japanese language
- 2) Joint Training
  - Introduction to medical science
  - Introduction to the team care system
- 3) Training Curriculum for Clinical Laboratory Technology Group
  - Lecture on Basic Theory
  - Observation on Quality Control, etc.
  - Lecture and Practice on various bacteria testing technologyTraining Curriculum for Medical Imaging Technology Group,
  - Latest Information on clinical imaging
  - Quality control of clinical images
  - Evaluation method of analogue imaging
  - Latest clinical imaging equipment
  - Radiology management
  - Clinical Practice
  - Maintenance and management of diagnostic equipment
- 4) Field Trip

**5. FACILITIES AND INSTITUTIONS**

- 1) Japan International Medical Technology Foundation
- 2) The Japan Association of Radiological Technologists Education Centre
- 3) Japanese Association of Medical Technologists
- 4) Related Institutes

**6. REMARKS**

**1. PERIOD**

January 26, 1993 to March 6, 1993 (1.5 months)

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

Six (6)

**3. QUALIFICATIONS**

- 1) be presently engaged in, or be candidates for the top management in hospital administration or government officials working in health services management
- 2) be University graduates or have the equivalent academic background
- 3) have a sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture and Workshop
  - Hospital Administration
  - Personnel and Labour management
  - Medical Administration
  - Facilities Administration
  - Pharmacies Administration
  - Medical Evaluation
  - Nurse Administration
- 2) - Observation

**5. FACILITIES AND INSTITUTIONS**

National Institute of Health Services Management

**6. REMARKS**

FOOD MICROBIAL CONTROL 食品微生物検査技術

## 1. PERIOD

January 5, 1993 to May 23, 1993 (5 months)

## 2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

## 3. QUALIFICATIONS

- 1) Research or technical officers presently engaged in food microbial control.
- 2) University graduates or equivalents with occupational experience of more than 3 years in the field of food microbial control.
- 3) Under thirty-five (35) years of age.
- 4) Good working knowledge of English.

## 4. DESCRIPTION OF TRAINING

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1) Lectures . . . . . 1 week           <ol style="list-style-type: none"> <li>1) Japanese Food Sanitation Law</li> <li>2) Microbial control</li> <li>3) Anaerobic bacteria</li> <li>4) Pathogenic bacteria</li> <li>5) Saprophytic bacteria</li> <li>6) Fungi</li> <li>7) Recent trend of regulation for marine and livestock products in Japan</li> </ol> </li> <li>2) Practice . . . . . 12 weeks           <ol style="list-style-type: none"> <li>1) Basic techniques               <ol style="list-style-type: none"> <li>(a) Staining of bacteria (Gram stain etc.)</li> <li>(b) Preparation of culture medium</li> <li>(c) Viable count of bacteria</li> <li>(d) Viable count of coliform group in drinking water</li> <li>(e) Viable count of fungi and yeast</li> <li>(f) Viable count of lactic acid bacteria</li> <li>(g) Viable count of anaerobic bacteria</li> </ol> </li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>2) Procedures for the isolation and identification of pathogenic microbes related to food-poisoning           <ol style="list-style-type: none"> <li>(a) Salmonella</li> <li>(b) Staphylococcus aureus</li> <li>(c) Pathogenic vibrios<br/>(V. parahaemolyticus, cholerae.)</li> <li>(d) Campylobacter</li> <li>(e) Clostridium perfringens</li> <li>(f) Listeria monocytogenes</li> <li>(g) Fungi and yeast</li> </ol> </li> <li>3) Observation of private and public facilities related to food microbial control</li> <li>4) Study Tours</li> </ol> |
|--|---|

## 5. FACILITIES AND INSTITUTIONS

- 1) Hyogo International Centre, JICA
- 2) Kobe Women's College of Pharmacy
- 3) Public Health Research Institute of Kobe City
- 4) Kobe Quarantine Station

## 6. REMARKS



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

1. PERIOD

August 18, 1992 to December 3, 1992 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) leading technical officers of import and export food sanitation of inspection who are university graduates and/or those who have equivalent practical experiences of food hygiene inspection more than three (3) years in the field of international food trade.
- 2) sufficient command of spoken and written English.
- 3) not more than forty (40) years of age.

4. DESCRIPTION OF TRAINING

Lecture

- a. Assessment of the problem of International Food Trade, and Promotion of Remedial Action and Formulation of Policy
- b. Legislative and/or Administrative Mechanism for Food Health Control
- c. Information System including system for Monitoring and Surveillance
- d. Development of Standard and Control Regulations
- e. Implementation of Control Technologies.
- f. Consultation and Cooperation between the Private and the Public Institute
- g. Training of Skilled Personnel
- h. Research and Development Studies to support Control Programmes

5. FACILITIES AND INSTITUTIONS

- a. Public Inspection Procedures
- b. Laboratory Inspections
  - 1 Microbiological Inspection
  - 2 Physico-Chemical Inspection
- Field Observation and Study Tour

6. REMARKS

**MYCOTOXIN INSPECTION IN FOOD** 輸出入食品マイコトキシン検査

**1. PERIOD**

February 18, 1993 to May 23, 1993 (3 months)

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

Seven (7)

**3. QUALIFICATIONS**

- 1) technical officers or inspectors presently engaged in food inspection,
- 2) university graduates or those who have equivalent academic background and have practical experience of not less than three (3) years in the field of food inspection,
- 3) sufficient command of spoken and written English,
- 4) not more than thirty-five (35) years of age,

**4. DESCRIPTION OF TRAINING**

- 1) Lectures
  - a) Food Sanitation Law and Food Inspection
  - b) General view on mycotoxins
  - c) Introduction to fungi
  - d) Isolation and identification of fungi
  - e) *Aspergillus flavus* contamination of groundnuts and maize
  - f) *Fusarium* contamination of wheat and maize
  - g) Sampling for mucotoxins
  - h) Analysis of mycotoxins
  - i) Control of mycotoxins
  - j) Analysis of food preservatives
- 2) Practices
  - a) Method of the isolation and identification of mycotoxins-producing fungi
  - b) Analysis of mycotoxins such as aflatoxins and *Fusarium* mycotoxins
  - c) Analysis of food preservatives
- 3) Observation and field trips  
Government and private food inspection organizations, food processing factories.

**5. FACILITIES AND INSTITUTIONS**

- 1) Hyogo International Center, JICA
- 2) Public Health Research Institute of Kobe City
- 3) Osaka Prefectural Institute of Public Health

**6. REMARKS**

SEMINAR ON PARASITE CONTROL ADMINISTRATION FOR SENIOR OFFICERS

寄生虫予防指導者セミナー

1. PERIOD

January 18, 1992 to February 14, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Senior Level Administrators or Experts in Government or Private Sector in Charge of Parasite Control
- 2) Medical or Other Related Professions
- 3) Under 55 years of age
- 4) Working Knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Presentation and Discussion
  - National Parasite Control Programme in Japan
  - Parasite Control Activities by Voluntary Organization
- 2) Country Presentation and Discussion
- 3) Presentation on the Epidemiological Aspect of Parasite Control
- 4) Demonstration of the Examination Method for Mass Examination and Treatment
- 5) Field Trip

5. FACILITIES AND INSTITUTIONS

- 1) Japan Association of Parasite Control
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

August 4, 1992 to December 20, 1992 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Completed JICA Training Course in "Specialized Nursing" from 1986 to 1987, or "Advanced Nursing Study Course for Southeast Asian Nurses" from 1973 to 1987.
- 2) Presently engaged in nursing administration or expected to engage in future.
- 3) A sufficient Command of spoken and written English and Japanese.

4. DESCRIPTION OF TRAINING

- 1) Japanese Language
- 2) Lectures
  - Health and welfare administration
  - Nursing administration in Japan
  - Basic knowledge of administration
  - Development of creativity and nursing service administration
  - Hospital administration
  - Principles of nursing administration
  - Personnel management
  - Nursing service management
  - Management of in-service education
- 3) Practical Training
  - Hospital administration
  - Nursing administration
- 4) Study Tours

5. FACILITIES AND INSTITUTIONS

The International Nursing Foundation of Japan (INFJ)

6. REMARKS

The course is conducted every other year.

SPECIALIZED NURSING 専門看護

1. PERIOD

March 18, 1993 to December 20, 1993 (10 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

Applicants should:

- 1) be completed the fundamental nursing education programme of three years or more
- 2) have an experience in nursing practice for five (5) years or more and desirably have experienced, at least for one year, in the field of the specialized nursing which the participant is to apply for,
- 3) be under thirty-five (35) years of age
- 4) have a sufficient command of spoken and written English
- 5) be in good health, both physically and mentally, to undergo the training course, Pregnancy is regarded as a disqualifying condition for participation in the course

4. DESCRIPTION OF TRAINING

The purpose of the course is to offer promising nurses in the developing countries an opportunity to acquire advanced knowledge & technology of specialized nursing (ICC/CCU, Public Health Nursing) through lectures & field studies (on the job training) so as to enhance the quality of nurses and eventually to contribute to needs in the area of human resource development of the respective country.

5. FACILITIES AND INSTITUTIONS

- 1) The International Nursing Foundation of Japan
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

Japanese Language Course is arranged for three months.

**1. PERIOD**

August 20, 1992 to February 22, 1993 (6 months)

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

Five (5)

**3. QUALIFICATIONS**

- 1) Certified staff nurse (head nurse and chief nurse are not applicable) who has more than five (5) years of experience
- 2) Under forty (40) years of age
- 3) Proficient in spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Common Programmes
  - Emergency Nursing
  - Observation

- 2) Specialized Sub-Course Programmes

Applicants are requested to select one sub-course from four sub-courses below:

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>a) Emergency Nursing Training               <ul style="list-style-type: none"> <li>- Surgical Ward (Including OPD)</li> <li>- ICU</li> <li>- CCU</li> <li>- Neurosurgery</li> <li>- Emergency Room</li> </ul> </li> <li>b) Internal Medicine Nursing Training               <ul style="list-style-type: none"> <li>- Cardiovascular System</li> <li>- Digestive System</li> <li>- Respiratory System</li> <li>- ICU</li> <li>- Medical Ward (Including OPD)</li> <li>- Emergency Room</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li>c) Surgical Nursing Training               <ul style="list-style-type: none"> <li>- Neurosurgery</li> <li>- Orthopedics</li> <li>- Operating Room</li> <li>- ICU</li> <li>- Surgical Ward (Including OPD)</li> <li>- Emergency Room</li> </ul> </li> <li>d) Maternal and Child Nursing Training               <ul style="list-style-type: none"> <li>- Obstetrics (Including NB)</li> <li>- Pediatrics</li> <li>- NICU</li> <li>- OPD</li> <li>- Emergency Room</li> </ul> </li> </ol> |
|---|---|

**5. FACILITIES AND INSTITUTIONS**

- 1) Okinawa Prefectural Chubu Hospital
- 2) Okinawa International Centre (OIC), JICA

**6. REMARKS**

1. PERIOD

August 6, 1992 to December 3, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Licensed physicians authorized by their governments
- 2) Under 35 years of age
- 3) Professional experience of more than 2 years in diagnosis and treatment of cardiovascular diseases
- 4) To be engaged in the same field after return to their countries
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
- 2) Discussions
- 3) Observations
- 4) Practices of laboratory examinations in each department or division
- 5) Study tours

The participants will choose a department or division according to their interests and specialties to do studies on diagnosis and treatment in the respective department or division.

5. FACILITIES AND INSTITUTIONS

The National Cardiovascular Center, Ministry of Health and Welfare

6. REMARKS

**1. PERIOD**

May 21, 1992 to June 21, 1992 (1 month)

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

Fourteen (14)

**3. QUALIFICATIONS**

- 1) Medically qualified top ranking administrators of the national government in charge of health administration, or the equivalents in public institutions
- 2) In a position to participate in planning and deciding the national health administration policy
- 3) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture & Discussion
  - Health policy & Planning
  - Health Resources Development Management
  - Community Health
  - Infectious Diseases Control
  - Environmental Health & Hygienes
  - International Collaboration
- 2) Observation Tours
  - Observe the actual health services in the community

**5. FACILITIES AND INSTITUTIONS**

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



## 1. PERIOD

June 18, 1992 to February 22, 1993 (8 months)

## 2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

## 3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than three years
- 2) Presently engaged in research work as a laboratory technologist in the field of public health
- 3) Be under forty-one (41) years of age
- 4) Having sufficient command of both spoken and written English

## 4. DESCRIPTION OF TRAINING

- 1) General Orientation
- 2) Intensive Japanese Language
- 3) Group Training Programme
  - Programme Orientation
  - General Introduction of Okinawa
  - Presentation
  - Study Tour

## 4) Individual Training Programme

## a) Infectious Disease

○ Isolation and Identification of Enterobacteria and Vibrios.

○ Isolation, Identification and Serological Tests of Leptospira.

○ Isolation and Identification of Botulinus and Detection of Botuline.

○ Isolation, Identification and Serological Examination of Viral Diseases such as Japanese Encephalitis, Influenza, Rubella.

○ Measles, Mumps, Hepatitis and HIV.

○ Diagnostic Procedures for Bacterial Food Poisoning.

## b) Medical Zoology and Parasitology

○ Identification, Ecological Observation and Control of Mosquitoes.

○ Identification, Ecological Observation and Control of Flies.

○ Identification, Ecological Observation and Control of Cockroaches.

○ Identification, Ecological Observation and Control of Lice and Fleas.

○ Identification, Ecological Observation and Control of Nuisance Insects.

○ Identification, Ecological Observation and Control of Mice.

○ Biological Evaluation of Water Pollution by Benthos.

○ Laboratory Examination of Malaria, Filaria and *Strongyloides stercoralis*.

## c) Food Chemistry

○ Laws and Regulations.

○ Observation of Food Sanitation Facilities.

○ Analysis of Artificial Colours.

○ Analysis of Preservatives.

○ Analysis of Artificial Sweeteners.

○ Analysis of Antioxidants.

○ Analysis of Food Poisoning Substances (Aflatoxin, Histamine, Volatile Amine).

○ Analysis of Toxic Heavy Metals.

○ Analysis of Organophosphorus Pesticides.

○ Analysis of Organochlorine Pesticides.

○ Others

## d) Air Pollution

○ Laws and Regulations.

○ Observation of Air Pollution Control Facilities.

○ Analysis of Air Pollutants (SO, NO, CO, Oxidant, O<sub>3</sub>, SPM).

○ Measurement of Wind Direction and Speed.

○ Stack Gas Sampling and Measurement.

○ Analysis of Dust and Soot.

○ Analysis of Heavy Metals.

○ Measurement of Noise and Vibration.

○ Analysis of Asbestos.

○ Analysis of Offensive Odors.

○ Analysis of Acid Rain.

○ Measurement of Radioactivity.

○ Others

## e) Water Pollution

○ Laws and Regulation.

○ Sampling of River Water, Marine Water, Factory Effluents.

○ Observation of Waste Water Treatment Facilities.

○ Analysis of pH, DO, COD, BOD, SS, Coli-form

Oil

○ Analysis of Pd, Cd, Cr, CN.

○ Analysis of Hg, As.

○ Analysis of Pesticide Residues.

○ Analysis of PCB.

○ Analysis of N.P.MBAS.

○ Others

## f) Snakevenom and Antivenom

○ Fractionation of Snake Venom.

○ Experimental Productions of Antivenom (Immunization of Animals, Purification of Antibody).

○ Assay of Antivenom (Antifetel Units, Antihemorrhagic Units, Antiswelling Units).

## g) Venomous Snake Control

○ Ecological Surveys of Venomous Snakes.

○ Control of Venomous Snakes.

## 5. FACILITIES AND INSTITUTIONS

- 1) Okinawa Prefectural Institute of Public Health
- 2) Okinawa International Centre (OIC), JICA

## 6. REMARKS

Applicants are required to select one subject from the training subjects listed below and specify first choice subject (and second choice, if any) in the A-2-3 or A-3 Form.

- 1) Infectious Diseases
- 2) Medical Zoology and Parasitology
- 3) Food Chemistry
- 4) Air Pollution

- 5) Water Pollution
- 6) Snake Venom and Antivenom
- 7) Venomous Snake Control

No. 296

**SEMINAR ON HUMAN RESOURCES DEVELOPMENT IN PUBLIC HEALTH**

公衆衛生教育

**1. PERIOD**

January 11, 1993 to January 30, 1993 (19 days)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) Either one of the following items
  - Director or dean of school of public health
  - Chief of the educational courses/programs at school of public health
  - Governmental officials who have responsibility for human resources development in public health
- 2) Good working knowledge of English

**4. DESCRIPTION OF TRAINING**

- 1) Lectures and studies
  - Modern history of public health in Japan
  - Public health personnels in health administration systems in Japan
  - Human resources development in public health and the role of the Institute of Public Health in Japan
  - Human resources development and institutional capacity (special topic)
  - International cooperation for appropriate technology transfer and human resources development
- 2) Observation tours

**5. FACILITIES AND INSTITUTIONS**

The Institute of Public Health, Ministry of Health and Welfare

**6. REMARKS**

Participants will be required to submit the country-report on the special topic mentioned above in advance.

1. PERIOD

August 10, 1992 to December 12, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be medical doctors or university graduates with more than 3 years' professional or academic experience in the field of health occupational
- 2) be presently engaged or expected to be working on their return in this field
- 3) be under 40 years old
- 4) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures for Occupational Health
  - the General Principles of Occupational and Environmental Health
  - Occupational Epidemiology and Biostatistics
  - Occupational Health in Agriculture
  - Occupational Diseases
  - Occupational Disorders due to Physical Factors
  - Occupational Toxicology
  - Work Physiology and Psychology
  - Ergonomics and Management
  - Evaluation of Work Environment
  - Control of Work Environment
  - Occupational Safety and Health Administration and Law
  - Occupational Health Services
- 2) Biostatistics and Data Management with Computer Course
- 3) Two Weeks Elective Seminar Course
  - Some participants will be assigned to the special course on pneumoconiosis at the Rosai Hospital for Silicosis or assigned to departments in the UOEH according to their interests
- 4) Country Report Presentation
- 5) Observation Tours

5. FACILITIES AND INSTITUTIONS

- 1) University of Occupational and Environmental Health, Japan
- 2) Keihai Rosai Hospital

6. REMARKS

1. PERIOD

January 18, 1993 to September 27, 1993 (8 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) be a medical doctors or graduates from a faculty of biology, pharmacy or agriculture,
- 2) or have at least three (3) years of occupational experience in the medical field
- 3) be more than 24 years old and under 40 years old
- 4) have a sufficient command of spoken and writted English
- 5) be presently engaged either in the Ministry of Health or medical research laboratory
- 6) be in good health, to undergo the course of training. Pregnancy is regarded as a disqualifying condition.

4. DESCRIPTION OF TRAINING

The course recommends an applicant to receive an intensive research training in a given department of the institute. Each department offers some conceivable research subjects on interest to the applicant. The applicants are allowed a free choice in the research subjects.

Although the training course includes the lectures, the majority of the course consists of the experimental basic research works under the guidance of the members of the institute.

The research subjects which are offered in 1991 by each department are as follows. The following subjects will be available in the course.

Pathology, Environmental Physiology, Parasitology, Virology, Bacteriology, Internal Medicine, Medical Entomology, Protozoology.

5. FACILITIES AND INSTITUTIONS

Institute for Tropical Medicine, Nagasaki University

6. REMARKS

1. PERIOD

May 14, 1992 to March 29, 1993 (11 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) College or university graduates or equivalent
- 2) Occupational experience of more than 3 years in developing and manufacturing biological products
- 3) under thirty-five (35) years of age
- 4) to be engaged in the same field after return to home countries
- 5) A good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures on vaccine manufacture and quality control in general
- 2) Individual study including practical training in manufacture of a specified vaccine chosen by each participant
- 3) Observations and study tours

5. FACILITIES AND INSTITUTIONS

The Research Foundation for Microbial Diseases of Osaka University

Kan-onji Institute, The Research Foundation for Microbial Diseases of Osaka University

6. REMARKS

No. 300

MAINTENANCE ENGINEERING FOR MEDICAL EQUIPMENT

医療機器保守管理技術

**1. PERIOD**

August 17, 1992 to September 20, 1992 (1 month)

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

Eight (8)

**3. QUALIFICATIONS**

- 1) University of electrical and electronic technology graduates or have the equivalent academic background
- 2) Have a personal experience of maintenance on X-ray equipment
- 3) Have thorough knowledge of two-pulse X-ray generation and combined radiographic devices
- 4) Under forty (40) years of age
- 5) Have a sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Lecture and Practice
  - Normal operation of conventional diagnostic X-ray apparatus
  - Routine maintenance of diagnostic X-ray apparatus
  - Troubleshooting and repairing of diagnostic X-ray apparatus
- 2) Observation tour

**5. FACILITIES AND INSTITUTIONS**

- 1) Japan Association for the Advancement of Medical Equipments
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

1. PERIOD

September 3, 1992 to September 20, 1992 (0.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Executive doctor or administrator engaged in measures for emergency/disaster medicine and taking leadership in emergency medical institutions or medical administrative organizations
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Participation in the 19th annual meeting of the Japanese Association for Acute Medicine
- 2) Lectures
  - The emergency medical service system in Japan
  - Health consequences of A-bomb radiation exposure
  - Epidemiology and response to
- 3) Observations
  - Japan Red Cross Medical Center
  - Suita City Health Center
  - Suita Municipal Hospital
  - Osaka Prefectural Senri Critical Care Medical Center
  - Department of Traumatology, Osaka University
  - Nippon Poison Information Center
  - Osaka Municipal Fire Department
  - Amagasaki Municipal Fire Department
  - Amagasaki Night/Holiday Clinic
- 4) Discussions
  - Prehospital care
  - Disaster preparedness and response

5. FACILITIES AND INSTITUTIONS

Japanese Association for Acute Medicine

6. REMARKS

**SEMINAR ON EVALUATION OF DRUG EFFICACY**

医薬品の効果判定セミナー

**1. PERIOD**

March 15, 1993 to June 28, 1993 (3.5 months)

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

Six (6)

**3. QUALIFICATIONS**

- 1) be a pharmacist or medical doctor and at the same time, a senior research worker, or a manager responsible for the evaluation of drug efficacy or a person of equivalent position.
- 2) have a sufficient command of spoken and written English.
- 3) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.
- 4) be not more than forty-five (45) years old.

**4. DESCRIPTION OF TRAINING**

- 1) Evaluation of Traditional Medicine
  - Examination for Effective Substance
  - Separation and Analysis of Effective Substance
- 2) Development of New Drugs
  - Screening test (Pharmacological and Toxicological studies)
  - Mechanism of actions
- 3) Drug Disposition and Pharmacokinetic Analysis
  - Drug Interaction
  - Drug Disposition in Disease State
- 4) Dosage Forms and Administration
  - Improvement of Pharmaceutical properties
  - Design and Evaluation of Advanced Dosage Forms
- 5) Hospital Pharmacy
  - Drug Information (Clinical Effects and Adverse Reactions)
  - Clinical Pharmacokinetics
- 6) Simulation of Field Action, Management of Field Programme
- 7) Field Trips
  - National Institute of Health, Tokyo
  - Taisho Pharmaceutical Co. Ltd., Tokyo
  - Takeda Chemical Industries, Osaka
  - The Chemo-Sero Therapeutic Research Institute, Kumamoto
  - Panapharm Laboratories, Kumamoto

**5. FACILITIES AND INSTITUTIONS**

- 1) Agency for Cooperation in International Health
- 2) Education and Training Institute, Kumamoto Hospital
- 3) Faculty of Pharmaceutical Sciences, Kumamoto University
- 4) Kumamoto University Medical School
- 5) Kumamoto Prefectural Government

**6. REMARKS**



1. PERIOD

March 22, 1993 to November 28, 1993 (8 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) have practical experiences of more than 3 years in health and hygiene work
- 2) be between 30 and 40 years old
- 3) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practical Training
  - Health and Medical Care System
  - Emergency Medical Care
  - Data Processing Methods for Health Insurance Schemes in Medical Care
  - Analysis of Disease Incidence
  - Screening of Diseases (Early Detection and Treatment)
  - Measures for Infectious Diseases
  - Measures for Health Promotion
  - Rehabilitation
  - Planning for Improvement of Health in Communities
  - Methods of Developing Educational Media
- 2) Study Trip
- 3) Japanese Language (2 months)

5. FACILITIES AND INSTITUTIONS

St. Mary's Hospital.

6. REMARKS

No. 304

**SEMINAR ON THE CONTROL OF HEALTH HAZARDS IN THE  
MODERNIZING PROCESS OF AGRICULTURE AND RURAL AREA**

農村近代化過程の健康障害対策セミナー

**1. PERIOD**

October 5, 1992 to December 7, 1992 (2 months)

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

Nine (9)

**3. QUALIFICATIONS**

- 1) be a medical doctor or a co-medical staff and, at the same time, a manager of middle level or above in the office or in the field with more than 5 years experiences. The work should be related to this training course.
- 2) be not more than 50 years old
- 3) have a sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Basic Lectures and Practice
  - Modernization and Public Health in Rural Area
  - Importance of Health Policies and Primary Health Care in Rural Area
  - Problems on Agricultural Chemicals
  - Health Problems in the Modernizing Process of Agriculture and Forestry
  - Health Problems in Rural Area
- 2) Group Study and Discussion
- 3) Study Trip
  - Agricultural Field
  - Forestry Field
  - Saku Central Hospital
  - Kagoshima University
  - Kumamoto Prefectural Centre for Health and Preventive Medicine
  - Tamana Public Health Centre
  - Institute of Health Management, Kumamoto Prefecture Branch, Japan Red Cross
  - Kumamoto Kinoh Hospital

**5. FACILITIES AND INSTITUTIONS**

- 1) Agency for Cooperation in International Health
- 2) Kumamoto University
- 3) Kumamoto National Hospital

**6. REMARKS**

**No. 305**

**SEMINAR ON FAMILY PLANNING ADMINISTRATION FOR SENIOR OFFICERS II**

家族計画指導者セミナーⅡ

**1. PERIOD**

August 18, 1992 to September 12, 1991 (1 month)

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

Twelve (12)

**3. QUALIFICATIONS**

- 1) Be responsible high-ranking officials in administration, planning and implementation of the field programmes of governmental organizations or private/voluntary organizations for family planning
- 2) Have a sufficient command of spoken and written English
- 3) Between thirty-five (35) and fifty (50) years of age, and with more than 5 year experience in the field of family planning.

**4. DESCRIPTION OF TRAINING**

- 1) Orientation and General Outline of Japanese Population/MCH/Family Planning
  - Population and family planning
  - Governmental MCH/family planning programme
  - Non-governmental family planning programme
  - Concept of family planning and strategies
  - Community organization
- 2) Presentation of Country Report
- 3) Field Observation
  - Prefectural governmental office
  - Prefectural health center
  - Municipal office
  - Community organizations
  - Hospital/institution
  - Primary school
- 4) Summing-up Session

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

No. 306

**SEMINAR ON COMMUNITY-BASED FAMILY PLANNING STRATEGY**

家族計画組織活動セミナー

**1. PERIOD**

May 11, 1992 to June 14, 1992 (1 month)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) Officers who are directly involved and responsible for community-based family planning programmes including Information, Education and Communication (IEC) activities of government or voluntary organizations at the central or provincial level.
- 2) Between 25 and 50 years of age
- 3) With sufficient command of spoken and written English

**4. DESCRIPTION OF TRAINING**

- 1) Presentation and discussions
  - Mother and Child Health / family planning
  - IEC strategies
- 2) Field study

**5. FACILITIES AND INSTITUTIONS**

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

**6. REMARKS**

The course will be conducted in 1992



**WELFARE**



MENTAL RETARDATION 精神薄弱福祉

1. PERIOD

June 1, 1992 to November 29, 1992 (6.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be presently engaged in education and/or training of people with mental retardation in special schools or facilities for them with more than three (3) years of occupational experience in the relevant field,\* be not medical doctors in hospital or professors in universities,
- 2) be university graduates or have the equivalent academic background
- 3) be not less than twenty-six (26) years, and not more than forty-five (45) years of age,
- 4) have a sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

- 1) Japanese Language
- 2) General Overview
  - General Comments
  - Specific Topics including Observation
- 3) Practice
  - General Practice
  - Special Practice
  - Study Tour

5. FACILITIES AND INSTITUTIONS

- 1) Japan League for the Mentally Retarded (JLMR)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

Japanese Language Course will be arranged for about two months prior to the course.



PROSTHETIC AND ORTHOTIC TECHNICIANS 補装具製作技術

1. PERIOD

July 20, 1992 to December 9, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Four (4)

3. QUALIFICATIONS

- 1) Be five years or more practical experience in the production of prosthetic and orthotic devices
- 2) Be expected to become leaders in this field
- 3) Have not studied a similar subject abroad before
- 4) Be a sufficient command of spoken and written English or Japanese

4. DESCRIPTION OF TRAINING

- 1) Lectures
  - Basic Medicine
  - Introduction of Prosthetics and orthotics
  - Functional Anatomy
  - Disability and Indication of Prostheses and orthoses
  - Materials
- 2) Practical training
  - B/K Prosthesis
  - A/K Prosthesis
  - Upper Extremity Prosthesis
  - Upper and Lower Orthosis
- 3) Study Tour

5. FACILITIES AND INSTITUTIONS

- 1) National Rehabilitation Center for the Disabled
- 2) Hachioji International Training Centre, JICA

6. REMARKS

There will be an intensive Japanese language course, conducted prior to the technical training (1 month, 100 hours).

REHABILITATION OF PHYSICALLY DISABLED PERSONS

障害者リハビリテーション指導者( 専門家 )

**1. PERIOD**

September 15, 1992 to November 1, 1992 (1.5 month)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) be a rehabilitation expert with experience of more than three years, such as social worker, rehabilitation counselor, therapist, vocational skill instructor, teacher, workshop manager, and trainer in other fields of rehabilitation for physically disabled persons (except medical doctors and nurses),
- 2) have a sufficient command of spoken and written English,
- 3) be not less than twenty-five (25), and not more than forty (40) years of age,
- 4) be in good health to undergo the course of training. Applicants with disabilities must be independent in activities of daily living and in moving. (No attendant available.) Pregnancy is regarded as a disqualifying condition for participation in the course.

**4. DESCRIPTION OF TRAINING**

- 1) Lecture
  - Medical and Vocational Rehabilitation Services
  - Services for Disabled Persons Provided by Local Government
  - General School System and Special Education
  - Other Programmes
- 2) Individualized Training
  - Management of Sheltered Workshops
  - Rehabilitation Social Work
- 3) Observation Tour
  - Services of Prefectural Government
  - The Sports Meeting of Disabled Persons

**5. FACILITIES AND INSTITUTIONS**

- 1) Japanese Society for Rehabilitation of the Disabled
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

**LEADERSHIP OF PHYSICALLY DISABLED PERSONS**

障害者リハビリテーション指導者(身体障害者コース)

**1. PERIOD**

October 26, 1992 to December 13, 1992 (1.5 month)

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

Ten (10)

**3. QUALIFICATIONS**

- 1) be a physically disabled person who has been leader of organization of disabled persons or groups with experience of more than three years,
- 2) have a sufficient command of spoken and written English,
- 3) be not less than twenty-five (25), and not more than forty (40) years of age,
- 4) be in good health to undergo the course of training. Applicants with disabilities must be independent in activities of daily living and in moving. (No attendant available.) Pregnancy is regarded as a disqualifying condition for participation in the course.

**4. DESCRIPTION OF TRAINING**

- 1) Lecture
  - Present situation of disabled persons in Japan
  - Service provided for the disabled in Japan
  - Disabled persons Movement
- 2) Individualized Training
  - Disabled person's organizations
  - Independent living activities
  - Disabled person's workshops.
- 3) Observation Tour
  - Disabled person's activities in local cities
  - The Sports Meeting of Disabled Persons

**5. FACILITIES AND INSTITUTIONS**

- 1) Japanese Society for Rehabilitation of the Disabled
- 2) Tokyo International Centre (Hatagaya), JICA

**6. REMARKS**

No. 311

SPORTS INSTRUCTOR OF PHYSICALLY DISABLED PERSONS

身障者スポーツ指導者

1. PERIOD

October 5, 1992 to November 20, 1992 (1.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be a workshop manager or a rehabilitation expert with more than three years experience such as a social worker, therapist, trainer in the field of sports or rehabilitation for the physically disabled (except medical doctors and nurses). Special school teachers and the leading disabled athletes are applicable.
- 2) have a sufficient command of spoken and written English or Japanese
- 3) be not less than twenty-five and not more than forty years of age.

4. DESCRIPTION OF TRAINING

- 1) Social welfare and Rehabilitation System in Japan  
Lectures and Study Visits
- 2) Sports for the disabled  
Lectures, Practicums and Study Visits
- 3) Discussions

5. FACILITIES AND INSTITUTIONS

Japanese Sports Association for the Disabled

6. REMARKS