LEADERSHIP OF PHYSICALLY DISABLED PERSONS

Sep. 24, '96 - Nov. 10, '96, 10 participants

障害者リハビリテーション指導者(障害者リーダーコース) J-96-00430

1. **PURPOSE** The purpose of this training course is to introduce the participants to Japanese rehabilitation system for disabled persons and their activities and organizations in Japan, and to provide an opportunity to enhance leadership skills through exchanging idea and information among the participants and Japanese relevant personnel in order to enable them to contribute to further development of their services and further promotion of social participation of disabled persons in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** Through the training programme, (lecture, practical training, country report presentation, etc.) the participants are expected to create a better understanding on the following: (1) analysis of the present status of disabled persons and identification of their requirement (2) promotion of institutional activities of disabled persons (3) improvement of a comprehensive public information programme on the rights and requirements of disabled persons (4) vigorous activities by organizations of disabled persons in Japan in collaboration with the government and the public for promoting social participation of disabled persons
3. **QUALIFICATION OF APPLICANT** (1) disabled person who is leader of organization/group of disabled persons with more than three years of experience in the relevant field (2) not less more 25 and no more than 40 years of age (3) be independent in daily activities (NOTE: No attendant shall be assigned for the participant during the course.)
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japanese Society for Rehabilitation of the Disabled

SPORTS INSTRUCTOR OF PHYSICALLY DISABLED PERSONS

Oct. 8, '96 - Nov. 22, '96, 10 participants

障害者スポーツ指導者 J-96-00456

1. **PURPOSE** The purpose of this training course is to introduce the participants who are presently engaged in social welfare activities for physically disabled people to the present situation of sports activities as well as sports leadership and game administration for disabled persons in Japan in order to contribute to further development of sports activities for the disabled in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** (1) The following major subjects will be covered in the course: (a) social welfare and rehabilitation system in Japan (lectures and study visits) (b) sports for the disabled (lectures, practices and study visits) (c) discussions to exchange information (2) Through the training programme, the participants are expected to: (a) educate sports leaders for the disabled in their respective countries, (b) plan and develop sports activities and recreational programmes for people with various types of disabilities, and (c) contribute to advancing athletic skills of disabled people to a competitive level.
3. **QUALIFICATION OF APPLICANT** (1) workshop manager or a rehabilitation expert with more than three years experience such as a social worker, therapist, sports or rehabilitation trainer for the physically disabled (except medical doctors and nurses). Special school teacher and the leading disabled athletes are applicable if their participation satisfied the purpose of this course (2) not less than 25 and not more than 40 years of age (3) be independent in daily activities (NOTE: No attendant shall be assigned for the participants during the course.)
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre, JICA (2) Japanese Sports Association for the Disabled

SEMINAR ON IMPROVEMENT OF THE STATUS OF WOMEN II

Aug. 27, '96 - Oct. 12, '96, 12 participants

女性の地位向上セミナーII J-96-00114

1. **PURPOSE** The purpose of the seminar is to provide knowledge of Japan's public system for dealing with women's problems, especially working women's problems. The aim of the seminar is to examine problems in the areas of employment, education and training, family life and child-care, social participation, etc., and to examine possible solutions.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on presentation and discussion by participants and introduction of Japanese administration. The participants will also have opportunities to visit Japanese women in farming communities besides various public organizations.
3. **QUALIFICATION OF APPLICANT** (1) woman who is either (a) engaged in work related to women's problems (especially working women's problems) at a government bureau or research institute specialized in women's affairs, (b) engaged in planning work at a NGO specialized in improvement of women's status, (c) playing a leading role among working women, or (d) in charge of women's problems at a labour union (2) have more than five years of occupational experience in this field (3) university graduate or equivalent (4) between 26 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Women's Bureau, Ministry of Labour (3) Japan Women and Young Workers Society

LABOUR-MANAGEMENT RELATIONS ADMINISTRATION SEMINAR

June 10, '96 - July 21, '96, 9 participants

労使関係行政セミナー J-96-00210

1. **PURPOSE** The purposes of the seminar are to introduce participants the system and an outline of the administration in the field of labour-management relations in Japan, to offer an opportunity for making a comparative study on labour-management relations in the participating countries, and thereby to contribute to the improvement of labour-management relations in these countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar is designed to be participative, providing an opportunity to gain knowledge through the exchange of information and ideas with other course members and other Japanese members. And it mainly covers: (1) labour-management relations in Japan (2) administration of labour-management relations in Japan (3) Japanese labour legislation on labour-management relations (4) productivity movement and technological innovation (5) comprehensive study
3. **QUALIFICATION OF APPLICANT** (1) middle ranking officer in charge of labour-management relations administration in the governmental organization and have more than three years of occupational experience in this field (2) university graduate or equivalent (3) not more than 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Labour Management Bureau, Ministry of Labour (3) Japan Institute of Labour

LABOUR STATISTICS FOR POLICY PLANNING SEMINAR

June 3, '96 - July 14, '96, 9 participants

労働統計・政策セミナー　　J-96-00224

1. **PURPOSE** The purpose of this seminar is to introduce participants to the present situation of compilation and utilization of labour statistics for policy planning in Japan with reference to its development process, and to offer an opportunity for making a comparative study between Japan and their countries, as well as among the participating countries, and thereby to contribute to the development of labour statistics and labour administration in the countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar aims to present Japanese experience in this field as a case study and it mainly covers: (1) outline of the system and the operative condition on the labour statistics in Japan (2) utilization of the labour statistics for labour policy planning (3) comparative study
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in labour statistics administration or in labour administration with labour statistics administration career (2) university graduate or equivalent (3) not more than 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Policy Planning and Research Bureau, Ministry of Labour

TRAINING COURSES SPECIALLY OFFERED

（一般特設コース）

SEMINAR ON ODA LOANS

Sep. 10, '96 - Oct. 10, '96, 22 participants

ODAローンセミナー J-96-03124

1. **PURPOSE** This seminar is designed: (1) to facilitate smooth and effective implementation of OECF loans, by enhancing participants' understanding of its system and procedures through lectures and discussions. (2) to exchange views on operation of OECF loans among participants and the officials of the OECF.
2. **MAIN FEATURES OF CURRICULUM** The curriculum is made up of the following two parts. (1) seminar on OECF loans: (a) roles and activities of OECF in Japan's economic cooperation (b) types of OECF loans (c) OECF project cycle (d) loans to and equity investments in Japanese corporations (e) presentation and discussion of Country Report prepared by participants (2) "International Symposium on Economic Cooperation on the occasion of International Cooperation Day"
3. **QUALIFICATION OF APPLICANT** (1) senior officer of a competent government office in charge of matters directly related to overall administration of OECF loans (2) have work experience of at least two years in the field of foreign aid receiving and development project (3) university graduate or equivalent (4) desirably between 30 and 45 years old of age
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Overseas Economic Cooperation Fund (OECF)

SEMINAR ON INTRODUCTION TO JAPAN'S INTERNATIONAL COOPERATION ACTIVITIES

June 4, '96 - June 23, '96, 10 participants

国際協力事業紹介セミナー J-96-03182

1. **PURPOSE** This seminar is designed: (1) to familiarize participants with the policy and programmes of Japan's international cooperation; (2) to familiarize participants with the concept, mechanism, and procedures of programmes of Japan International Cooperation Agency; (3) to exchange views on operation of international cooperation with Japan among participants and JICA staff members and (4) to expose participants to Japan and the Japanese people to develop friendship and mutual understanding.
2. **MAIN FEATURES OF CURRICULUM** The following topics will be covered in the seminar: (1) general introduction to Japan and the Japanese people. (2) general introduction to Japan's international cooperation (a) Ministry of Foreign Affairs and Japan's policy (b) JICA and her role (c) Overseas Economics Cooperation Fund (OECF) and her role (d) other agencies (e) country-wise/region-wise approach by JICA (f) future of JICA's international cooperation programmes with developing countries (3) JICA's programmes and procedures. (a) introduction (b) case study on some project-type technical cooperation projects (c) observation of affiliated organizations of JICA including JOCV Secretariat and its Training Institute (4) discussion for better cooperation implementation
3. **QUALIFICATION OF APPLICANT** (1) official in the rank of director of the division in charge of the international cooperation programmes in the central government
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA

ECONOMIC DEVELOPMENT SEMINAR FOCUSING ON WOMEN (SEMINAIRE SUR LE DEVELOPPEMENT ECONOMIQUE CENTRE SUR LES FEMMES) (AFRICAN COUNTRIES)

Oct. 29, '96 - Nov. 23, '96, 8 participants

女性に視点を当てた経済開発セミナー(仏語アフリカ) J-96-03228

1. **PURPOSE** This seminar is designed to introduce Japan's experiences of economic development policies through lectures, report presentations, discussions and field trip. It also aims to upgrade participants' knowledge on each country's economic development planning, especially focusing on women's roles in promoting their social status and welfare.
2. **MAIN FEATURES OF CURRICULUM** The following subjects will be covered in the seminar. (1) lecture-cum-discussion to Japan's economic development backgrounds and the meaning of Japan's policy of economic development, (2) study visits to women's organizations, (3) Country Report presentation and discussion: presentation of historical backgrounds and present conditions of economic development in respective countries, focusing on women's role and status in each nation
3. **QUALIFICATION OF APPLICANT** (1) central government planning officials engaged in economic development planning and have at least 5 years' occupational experience in this field, (2) have an academic background in economics or those having proper experience and knowledge on economic policy and planning, (3) between 30 and 40 years of age, (4) have sufficient command of written and spoken French.
4. **TRAINING INSTITUTIONS** (1) Economic Planning Agency (EPA), (2) Institute for International Cooperation (IFIC), JICA.
5. **REMARKS** THIS COURSE WILL BE CONDUCTED IN FRENCH

SEMINAR ON "WOMEN IN ENVIRONMENT AND DEVELOPMENT" (Women's Role in Environmental Protection)

Feb. 10, '97 - Mar. 22, '97, 5 participants

「環境と開発と女性」セミナー J-96-03263

1. **PURPOSE** Environmental issues are becoming more serious, especially in developing countries. In order to overcome these problems, it is essential to define the role of women in global environmental preservation, as well as in the achievement of sustainable development of countries. By taking the idea of WID (Women in Development) into consideration, this seminar will enable the participants to understand the importance of balancing environmental preservation and national development. It will also help participants to implement effective countermeasures against environmental pollution, according to their respective positions (from NGO to government levels).
2. **MAIN FEATURES OF CURRICULUM** Participants will be able to upgrade their knowledge and capabilities necessary for the management of environmental protection from women's point of view through lectures, discussions and observation. The main themes in the course are: (1) global environmental problems, (2) environmental administration in Japan, (3) measures for living environment control, (4) women in development (WID), (5) public health and reproductive rights, (6) environmental history of Kitakyushu City and anti-pollution movement promoted by women, (7) environmental impact assessment, and (8) environmental education
3. **QUALIFICATION OF APPLICANT** (1) government officer or staff of a non-governmental organisation currently in charge of environmental problems or women's issues, (2) have 3 years occupational experience in the field, and (3) be university graduates or the equivalent
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA, (2) Kitakyushu Forum on Asian Women

SEMINAR ON ECONOMIC DEVELOPMENT AND INDUSTRIAL PROJECT APPRAISAL

Oct. 14, '96 - Nov. 24, '96, 10 participants

工業プロジェクト評価と経済開発セミナー　J-96-03310

1. **PURPOSE** This seminar is designed for senior official engaged in planning of economic policy. The purpose of this seminar is to introduce (i) the latest issues of financial, economic, and social economic analysis of industrial projects, and (ii) an overview of theory, practice of industrial development, related policy issues, small and medium enterprises and Japanese production management system drawing upon the development experience of Japan, and thereby to contribute to planning of policy in developing countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar emphasizes policy issues and discussions based on the latest issues of development, and mainly covers: (1) project appraisal (2) economic development and Japanese experience (3) workshop and presentation of reports (4) presentation of Country Report (5) Observation tours to factories and, study tours.
3. **QUALIFICATION OF APPLICANT** (i) university graduate or equivalent, (ii) senior official having both basic knowledge and experience of industrial project appraisal, (iii) between 37 and 45 yeas of age, (iv) should submit a report on industrial project appraisal or experience of industrial development.
4. **TRAINING INSTITUTIONS** (1) Hachiouji International Training Centre (HITC), JICA (2) International Development Center of Japan (IDCJ)

GENERAL MANAGEMENT SEMINAR FOR REGIONAL DEVELOPMENT AND PLANNING

Oct. 7, '96 - Nov. 29, '96, 7 participants

地域開発計画管理セミナー　J-96-03153

1. **PURPOSE** This course is designed to provide the participants with a practical knowledge and wide-range perspectives for planning and management of regional development policies through the effective combination of case studies, lectures, discussions and field-trips regarding regional development in Hokkaido.
2. **MAIN FEATURES OF CURRICULUM** Main themes of this course are as follows: (1) study of planning and managing regional development policies based on the case studies of relevant projects (2) knowledge of methods in planning and promoting regional development projects on a local level (3) basic knowledge of the relation between development planning and environmental problems (4) familiarity with basic policies and systems of regional development in Hokkaido
3. **QUALIFICATION OF APPLICANT** (1) engaged in the planning or implementation of national or regional development projects and policy (2) university graduate or equivalent (3) over 25 and under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Hokkaido Development Agency

ADVANCED COURSE FOR SENIOR POLICE ADMINISTRATORS

(not conducted in JFY 1996)

上級警察幹部研修

1. **PURPOSE** This course is not a technical course for specific knowledge or skill in police service. Its purpose is rather to provide participants who are expected to be top leaders of respective countries' police authorities with opportunities for study of overall aspects on Japanese police service such as police organization and management, police activities and various investigative techniques, and for discussion of issues on respective countries' police affairs, thus to contribute to the further improvement of each country's police service and development of society.
2. **MAIN FEATURES OF CURRICULUM** This course is designed to cover the following themes (1) Japanese police and current situation of participating countries' police activities (a) organization, authority of police of Japan and presentation of papers prepared in advance by participant (2) overall aspects of police service (a) community policing (b) criminal investigation, identification (c) administration of the police organization (d) crisis management (3) problems and cue for the solutions (a) report making and presentation (participants are expected to select appropriate topic for the research paper individually) (4) international solidarity and cooperation (a) field observation of prefectural police
3. **QUALIFICATION OF APPLICANT** (1) assistant director of division in the central police organization, or in an equivalent position, who is expected to be one of the top leaders in the central police organization in the future (approximately from Police Inspector to Superintendent at present) (2) aged between 27 and 40 years (3) have never been trained in Japan under the JICA technical cooperation scheme
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Research and Training Institute for Criminal Investigation (IRTICI), National Police Academy (3) Education and Training Division, Police Administration Bureau, National Police Agency (NPA)
5. **REMARKS** (1) This course is organized for Asian Pacific regions and Oceanian countries. (2) A compulsory intensive Japanese language course will be conducted prior to the main training for two weeks. (3) Starting Japanese Fiscal Year 1996, this course will be conducted alternately with the course "Seminar for Senior Police Managers" every other year. This year (Japanese Fiscal Year 1996), this course will not be offered.

SEMINAR FOR SENIOR POLICE MANAGERS

May 16, '96 - Jun. 21, '96, 6 participants

国際警察トップリーダーズセミナー　J-96-03283

1. **PURPOSE** The purpose of this seminar is to share experiences on the most important issue in participating countries and to have an opportunity to learn useful practices of Japanese police from administrative system to individual technique in criminal investigation.
2. **MAIN FEATURES OF CURRICULUM** This seminar consists mainly of presentation and discussion based on the knowledge and experiences of participants, and partly of several lectures on management. The seminar aims to: (1) have participants from varying countries share experiences on police-related issues, (2) have participants learn about the Japanese police administrative system as well as criminal investigation techniques.
3. **QUALIFICATION OF APPLICANT** A director of a department in central police organization or higher in position with police career for more than 15 years, who is expected to be a top leader in the future.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Research and Training Institute for Criminal Investigation (IRTICI), National Police Academy
5. **REMARKS** Starting Japanese Fiscal Year 1996, this course will be conducted alternately with "Advanced Course for Senior Police Administrators" every other year. This year (Japanese Fiscal Year 1996), This course will be offered.

SEMINAR FOR SENIOR POLICE AND LAW ENFORCEMENT (LATIN AMERICAN COUNTRIES)

Nov. 14, '96 - Dec. 8, '96, 10 participants

上級警察幹部セミナー(中南米諸国) J-96-03241

1. **PURPOSE** The course is designed for those who are expected to be top leaders of police authorities in Latin American countries. The participants will study overall aspects of Japanese police services. They will also discuss recent police issues of participating countries.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the seminar: (1) international cooperation in criminal justice (2) drug and firearm offences (3) organized crime (4) criminal identification (5) community police activities
3. **QUALIFICATION OF APPLICANT** (1) senior police officer or senior law enforcement officer, superintendent, major or at higher position (2) generalist with knowledge and practical experience in a broad aspect of police activities (3) over 35 and under 50 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Research and Training Institute for Criminal Investigation (IRTICI)

SEMINAR ON CRIMINAL INVESTIGATION (ORGANIZED CRIME)

Jan. 13, '97 - Feb. 9, '97, 7 participants

国際鑑識セミナー J-96-03222

1. **PURPOSE** This seminar aims at meeting the requests from abroad to transfer the identification techniques by systematically introducing Japanese identification activities in criminal investigation including advanced science techniques and collection of evidence at a crime scene, through lectures and practical training with the emphasis on case studies.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice at laboratory experiments and introduction of Japanese experience through: (1) lectures and observations for outlining the system of scientific criminal identification in Japan, (2) practical training in identification activities applicable to criminal investigation
3. **QUALIFICATION OF APPLICANT** Senior police officer: (1) in charge of criminal identification or investigation in central police organization (2) in a position to give instruction in identification techniques acquired through this seminar (3) university or college graduate, or the equivalent (4) over 35 and under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Identification Division, National Police Agency (3) International Research and Training Institute for Criminal Investigation, National Police Academy

LOCAL GOVERNMENT ADMINISTRATION AND PUBLIC SERVICES

May 13, '96 - Aug. 4, '96, 9 participants

地方自治体行政 J-96-03192

1. **PURPOSE** This course is intended to introduce the general framework of Japanese local governments and public services to officials of medium-scale local governments in participating countries. The course provides them with lectures in topics such as taxation system, educational administration, public welfare, health, medical care, environmental sanitation, etc.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following topics will be covered by lectures and study tours: (1) local government systems (2) administrative practice: environmental sanitation, water supply and sewage work, health and medical care, public welfare, education, agriculture and forestry, promotion of commerce and industry (3) system of parliamentary election
3. **QUALIFICATION OF APPLICANT** (1) college graduate or equivalent (2) sectional or department head of administration sections in local government (3) less than 45 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Ibaraki City Hall
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

LOCAL GOVERNMENT ADMINISTRATION AND PUBLIC SERVICES (OCEANIAN COUNTRIES)

Oct. 28, '96 - Nov. 25, '96, 5 participants

地方自治体行政実務(大洋州諸国) J-96-03274

1. **PURPOSE** This course provides the participants of medium-sized local governments in Oceanian countries with general information on Japanese local government administration, including systems of local autonomy, public service personnel and public finance. It also introduces specifics of policy-making, public services and personnel management in local public bodies. The participants are expected to acquire basic and practical knowledge on the framework of Japanese local government, so as to improve the social welfare, health care and education of each country.
2. **MAIN FEATURES OF CURRICULUM** The following subjects are covered in this course through lectures, discussion and study tours: (1) local autonomy system (2) local public services and personnel system (3) local taxation and finance system (4) organization and function of local bodies (5) assembly and election system (6) case studies on the public services in Hiroshima Prefecture (education, industry promotion, regional planning, etc.)
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) administrative official with more than ten years of experience (3) section or department head in charge of local government administration (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Local Public Service Training Institute, Hiroshima Prefectural Government

SEMINAR ON GOVERNMENT HUMAN RESOURCE MANAGEMENT

Sep. 3, '96 - Sep. 29, '96, 10 participants

上級人事管理セミナー　J-96-03134

1. **PURPOSE** This seminar introduces participants to the current Japanese human resource management policy of the government, which supports national prosperity. Although the actual framework of human resource management varies from country to country, understanding the dynamism of human resource management in Japan may be of great help in identifying crucial problems of human resource management in other countries. The purpose of this seminar is thus to assist participants in forming policies of human resource management which are suitable for their own country's circumstances.
2. **MAIN FEATURES OF CURRICULUM** The following topics will be covered in the seminar: (1) overview of human resource management (a) introduction to civil service system (b) role of human resource management (2) practice of human resource management (a) actual practice (work incentives, career development, current problems, characteristics of bureaucracy) (b) human resource management in private companies
3. **QUALIFICATION OF APPLICANT** (1) senior class official (division director or above) in charge of personnel policy formation in central personnel agencies (2) university graduate or equivalent, with occupational experience of more than ten years (at least two years of which in the government)
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

IMMIGRATION CONTROL ADMINISTRATION (ASIAN COUNTRIES)

Jan. 20, '97 - Feb. 23, '97, 8 participants

出入国管理行政(アジア諸国)　J-96-03256

1. **PURPOSE** The purpose of this course is to provide participants with practical knowledge and training on immigration control administration introducing the Japanese system, in order to contribute to the development of immigration control and mechanism of regional network in participating countries of Asia.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips; (1) law and regulation system, control administration mechanism (2) inspection service (3) computer service (4) document identification service (5) theme study
3. **QUALIFICATION OF APPLICANT** (1) immigration officer (2) over 5 and under 15 years' experience (3) between 25 and 35 years of age (4) university graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Ministry of Justice, Osaka Regional Immigration Bureau,

PUBLIC MANAGEMENT (ASIAN AND AFRICAN COUNTRIES)

Feb. 11, '97 - Mar. 9, '97, 5 participants

行政管理(アジア・アフリカ諸国)　J-96-03227

1. **PURPOSE** (1) to introduce Japan's experiences of public management, comprehensive coordination for policies to the participants, and (2) to assist them in considering ways for better public management through lectures, report-presentations, discussions and field trips.
2. **MAIN FEATURES OF CURRICULUM** This seminar is programmed for participants to increase knowledge on public management. Subjects of lectures are as follows: (1) administrative organization (2) civil service system (3) national finance system (4) policy formation, implementation, evaluation (5) administrative reformation
3. **QUALIFICATION OF APPLICANT** (1) a national government official having an occupational experience in the field of public management, (2) university graduate or equivalent, (3) between 25 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA, (2) Management and Coordination Agency (MCA)

SEMINAR ON INDUSTRY AND TRADE POLICIES OF JAPAN

May 14, '96 - June 28, '96, 15 participants

通商産業政策セミナー　J-96-03175

1. **PURPOSE** The purpose of the Seminar is to introduce to the participants (1) Japan's experience in economic development, and (2) Japan's industrial and trade-related policies and the roles they have played. It is hoped that the insights thus gained will help them in working out policies for their own countries.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the Seminar. (1) lecture-cum-discussion (a) overall review of Japan's experiences (b) strategies of Japan: industry and trade policies, Role of MITI (c) specific policy measures of Japan. e. g. (i) finance (ii) taxation (iii) R & D technology (iv) industrial location (v) environmental issues (vi) small-and medium-scale industries (vii) monetary policy (2) study visits (3) field trip (4) presentation of and discussion on Country Report (5) Final Report writing, presentation and discussion
3. **QUALIFICATION OF APPLICANT** (1) government officials in charge of industrial policy or international trade policy (2) have more than eight-year experience in this field (3) have no previous experience in studying Japan in Japan (4) university graduate or equivalent (5) between 30 and 45 years of age (6) has a sufficient command of English (scoring more than 550 on the TOEFL or its equivalent)
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Development Center of Japan (IDCJ)
5. **REMARKS** Participants will write Final Reports, which will highlight the crucial policy issues in industrial development of their own countries.

SEMINAR ON TRANSITION TO A MARKET ECONOMY

May 14, '96 - June 8, '96, 5 participants

市場経済化促進セミナー　　J-96-03183

1. **PURPOSE** (1) to introduce Japan's experiences of economic development policies to the participants, and (2) to identify the appropriate models of economic transition for the respective countries through lectures, report-presentations, discussions and field trips.
2. **MAIN FEATURES OF CURRICULUM** This seminar is programmed for participants to increase knowledge on various patterns of economic development and policies in the transition processes. Subjects of lectures are as follows. (1) industrial policy (2) monetary policy (3) human resource development (4) industrial relations and labour practices in Japan, etc.
3. **QUALIFICATION OF APPLICANT** (1) those who have an academic background in economics or those having a proper experiences in and knowledge on economic policy and planning (2) between 30 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Economic Planning Agency (EPA)

ANTI-MONOPOLY ACT AND COMPETITION POLICY

Aug. 26, '96 - Sep. 22, '96, 5 participants

独占禁止法と競争政策　　J-96-03230

1. **PURPOSE** This course is intended for leading members of the authorities of anti-monopoly act in participating countries. The participants will learn about Japan's Anti-Monopoly Act, its implementation and application and related legislation, with the aim of establishing or revising the competition act and its effective management in their countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussion and observation. It mainly covers: (1) the legislation of Japan's Anti-Monopoly Act and its implementation, (2) case studies of the application of the Anti Monopoly Act (3) comparative studies of the Anti-Monopoly Act in participating countries
3. **QUALIFICATION OF APPLICANT** (1) university/college graduate or equivalent (2) administrators of the authorities of Anti-Monopoly Act or the authorities drafting competition act, and, (3) have more than 2 years' occupational experience in the field.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Fair Trade Commission.

FINANCIAL INDUSTRY INFORMATION SYSTEMS

Jan. 28, '97 - Feb. 19, '97, 7 participants

金融情報システム　　J-96-03204

1. **PURPOSE** In accordance with the rapid economic growth and development shown in the East and South Asia region, it is required to establish functional financial industry information systems which work for financial adjustment and coordination among financial bodies. This course aims at providing the participants with the knowledge and techniques to ensure financial liability and safety.
2. **MAIN FEATURES OF CURRICULUM** To enhance one's capabilities to formulate monetary information systems from the theoretical and practical point of view, the following subjects are referred; (1) Japan's current monetary policy, (2) history of fiscal and monetary policy, (3) Japan's trend of financial information systems, (4) countermeasures to secure safety in financing, (5) supervision and auditing for financial systems, (6) current issues on financial affairs.
3. **QUALIFICATION OF APPLICANT** (1) central government bank officials in charge of planning and/or development of financial information system with more than ten years of professional experience in the said field, (2) over 35 and under 45 years of age, (3) holder of B. A. in economics, public administration or commerce.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Banking Bureau, Ministry of Finance, (3) The Center for Financial Industry Information Systems (Japan).

STOCK EXCHANGE SEMINAR

Feb. 11, '97 - Mar. 6, '97, 7 participants

証券取引所セミナー　　J-96-03257

1. **PURPOSE** To provide opportunity to acquire basic knowledge of the Japanese securities markets, particularly the stock exchange market, in order to help the participants contribute to the development of capital markets of their countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar is aimed mainly at furnishing participants with general, basic information on the Japanese securities market. The program of the seminar is as follows: (1) lectures on the primary markets, listing, secondary markets, clearance and settlement, etc., and (2) field trips to securities company, Central Depository, clearing company and other stock exchange, etc., and (3) Country Report Presentation
3. **QUALIFICATION OF APPLICANT** (1) staff members of stock exchanges or the competent regulatory authorities of securities markets, (2) between 25 and 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Tokyo Stock Exchange (TSE)

ECONOMIC TRANSACTION LAWS

Feb. 17, '97 - Mar. 29, '97, 9 participants

経済取引関係法整備支援 J-96-03284

1. **PURPOSE** The purpose of this course is to discuss about reasons and solutions for various problems which the civil judiciary faces in respective countries; and give lectures on basic economic transaction laws, (especially the ones which are indispensable in the transition to market-oriented economy and some topics needed in preparation of its operation system), and thereby to contribute to the improvement of strategies for prevention and solution of disputes concerning economic transaction.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) Japanese law system (2) structure and role of the Ministry of Justice (3) basic legislation of civil and commercial affairs (4) monitoring committee of stock exchange (5) international private law, and (6) court system
3. **QUALIFICATION OF APPLICANT** (1) officials in department of justice in respective government, public prosecutors, registrars, judges (2) have more than 8 years' experience (3) under 50 years of age (4) university graduates from faculty of law (5) officials who are engaged in jobs relevant to the main topic of the course or middle-class executives with such experience who have good command of English (Applicants with judicial license are given priority.)
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Research and Training Institute, Ministry of Justice

WATER QUALITY MANAGEMENT

Sep. 3, '96 - Oct. 25, '96, 10 participants

水質環境管理 J-96-03239

1. **PURPOSE** The main purpose of the course is to provide technical officials with professional knowledge and techniques as well as comprehensive planning perspectives for water quality management. The course is also intended to introduce Japanese experience and the current conditions in the field of water quality management, to provide the participants with principles and approaches for solving problems, and to enhance participants' capability to contribute to environmentally sound socio-economic development and human welfare in their home countries.
2. **MAIN FEATURES OF CURRICULUM** The course is focused on the introduction of Japanese administration in water pollution control and the exchange of information among participants. Therefore the course is conducted mainly in the form of lectures, discussions, and observation tours. The following major subjects will be covered in the course: (1) water quality management in Japan (2) effects of water pollution on water use and its countermeasures (3) planning and implementation of water quality management (4) technology for waste and wastewater management
3. **QUALIFICATION OF APPLICANT** (1) technical officials presently in charge of water pollution control administration including domestic and industrial wastewater management in central or local governments with three or more years of experience in this field, (2) university graduates or possess equivalent technical qualifications in this field, (3) not more than 35 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Water Quality Bureau, Environment Agency (3) Japan Society on Water Environment

PLANNING ON REGIONAL ENVIRONMENTAL PRESERVATION

Sep. 2, '96 - Nov. 20, '96, 5 participants

地域環境保全計画 J-96-03260

1. **PURPOSE** The purpose of this course is to provide technical officials and researchers with comprehensive knowledge and techniques of measuring and analyzing environmental aspects such as air and water quality which is indispensable to the understanding of basic environmental factors. Consequently, the participants are expected to study the method of region-wise environmental management and thereby to contribute to the formulation of various measures for environmental management and preservation.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes. (1) environmental legislation system (2) environmental impact assessment (3) pollution control plans, environmental management plans and other plans (4) regional activities that address global environmental problems (5) environmental measuring and analyzing pollution-related technology (6) environmental monitoring (7) measures to reduce the burdens of environmental pollution
3. **QUALIFICATION OF APPLICANT** (1) technical official and researcher engaged in the environmental administration of the national and local government or related public organization (2) university graduate in science and engineering or equivalent (3) have more than 5 years' experience in the field of environmental preservation (4) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Hokkaido Environmental Science Research Center

ENVIRONMENT MANAGEMENT SEMINAR (LATIN AMERICAN COUNTRIES)

June 10, '96 - July 21, '96, 8 participants

環境管理セミナー(中南米諸国) J-96-03265

1. **PURPOSE** In developing countries, countermeasures to industrial pollution and urban-life pollution from the viewpoint of prevention of global worming are to be promoted. The introduction of appropriate technology for sustainable development is also required.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) countermeasure to environmental problem and its history (2) environmental law system in Japan (3) establishment of environmental standard and discharge standard (4) monitoring of generation course (5) establishment of environmental management plan and regional pollution prevention plan (6) environmental assessment (7) sustainable development (8) preservation of global environment
3. **QUALIFICATION OF APPLICANT** (1) middle-class officials in charge of planning project in the field of environment (2) have more than 5 years' experience (3) over 30 years of age (4) university graduates
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre, JICA, (2) Environment and Public health Bureau, Osaka City Government
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

TECHNOLOGY FOR INDUSTRIAL EXHAUST GAS TREATMENT AND ENERGY SAVING

May 13, '96 - June 23, '96, 8 participants

産業排ガス処理技術及び省エネルギー技術 J-96-03129

1. **PURPOSE** (1) teach current theories, and introduce information and technology concerning industrial exhaust gas treatment and industrial energy utilization, (2) enhance ability to plan, execute and evaluate projects concerned, (3) acquire methods for solving the problems of control and treatment of industrial exhaust gas, and (4) provide participants with opportunities to exchange information about how to deal with problems concerning technology for industrial exhaust gas treatment and energy saving.
2. **MAIN FEATURES OF CURRICULUM** This course will be conducted in the form of lecture/discussion, practice and observations of the organizations concerned. The main themes are: (1) general knowledge of historical background and present status of Yokkaichi city (2) history of environmental pollution in Yokkaichi and measures taken by government and industries (3) present status of environmental assessment and cooperation between administration and industry (4) information on the current trend in basic and advanced techniques and case study in operation control and exhaust gas treatment, and energy and resource saving and industrial waste treatment (5) exercise for measuring and monitoring of environmental pollution
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) presently engaged in this field at industries, research institutes or vocational institutes (3) have practical experience of more than 5 years in the field of industrial policy planning, business management of pollution control technology (4) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) International Center for Environmental Technology Transfer (ICETT)

SAVING AND RE-USING INDUSTRIAL WATER

(not conducted in JFY 1996)

廃水の再生利用

1. **PURPOSE** Along with economic development, especially in the industrial sector, the emphasis should be placed upon saving water resources and prevention of water pollution. Thereby, the course aims at introducing the participants the effective countermeasures and new technology useful for the waste water management.
2. **MAIN FEATURES OF CURRICULUM** The course covers following subjects; (1) outline of Japan's waste water management (2) laws and regulations concerning environmental protection (3) technology on water treatment and re-use, desalination, purification, building drainage sewage treatment (4) visits to research laboratories related plants and facilities for water treatment
3. **QUALIFICATION OF APPLICANT** (1) university graduate majoring engineering, or equivalent, (2) have more than five year practical experience in the waste water management (3) engaged in government office or public corporation (4) between 30 and 50 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Water Re-Use Promotion Center (3) Ministry of International Trade and Industry
5. **REMARKS** This course is offered alternately with the course "Industrial Solid Waste Recycling Technology". This year (in Japanese Fiscal Year 1996), this course will not be offered.

INDUSTRIAL SOLID WASTE RECYCLING TECHNOLOGY

Jan. 21, '97 - Mar. 8, '97, 5 participants

産業廃棄物の再資源化 J-96-03121

1. **PURPOSE** Along with economic development, especially in the industrial sector, the emphasis should be placed upon saving energy, preserving natural resources, and protecting the environment. Thereby, the course aims at introducing to the participants, effective countermeasures and new technology useful for industrial solid waste management.
2. **MAIN FEATURES OF CURRICULUM** The course covers the following subjects: (1) Lectures on the outline of Japan's industrial solid waste control and its law and regulations concerning environmental protection, (2) case studies on the technology for recycling (e.g. crushing, incineration, landfill, detoxification, segregation, dehydration, etc.) (3) visits to research laboratories and related plants for solid waste treatment.
3. **QUALIFICATION OF APPLICANT** (1) university graduate majoring in engineering or equivalent, (2) have more than 5 years of practical experience in industrial solid waste management, (3) be engaged in government office or public cooperation as technical officials, (4) be between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** (1) Ministry of International Trade and Industry (MITI), (2) Tokyo International Centre (TIC), JICA, (3) Clean Japan Center
5. **REMARKS** This course is offered alternately with the course "Saving and Re-Using Industrial Water" every other year. This year (in Japanese Fiscal Year 1996) this course will be offered.

SEMINAR ON PROMOTION OF OZONE LAYER PROTECTION IN ASIAN COUNTRIES

Sep. 23, '96 - Oct. 5, '96, 10 participants

オゾン層保護対策セミナー(アジア諸国) J-96-03125

1. **PURPOSE** The purposes of this seminar are to assist participating Asian countries in: (1) participating in the "Montreal Protocol on Substances that deplete the Ozone Layer"; and (2) complying with the Protocol by providing the latest information on ozone layer depletion, the Montreal Protocol (including amendments), and Japanese legislative and institutional arrangements.
2. **MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures (a) overview of ozone layer science (b) environmental impact of increased UV-B radiation (c) outline of the Vienna Convention and the Montreal Protocol, and legislative and institutional arrangements in Japan (d) overview of technologies to reduce ozone layer depleting substances (e) state of development on alternative technologies to reduce consumption of ozone layer depleting substances (f) monitoring of ozone layer (2) field visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of ozone layer protection in the participating countries
3. **QUALIFICATION OF APPLICANT** (1) senior staff members who are presently engaged in a government administrative organization and are in charge of ozone layer protection (2) university graduate or equivalent (3) from 35 to 50 years of age
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Environmental Sanitation Center

SEMINAR TO COPE WITH GLOBAL WARMING IN ASIA PACIFIC REGION

May 16, '96 - May 29, '96, 10 participants

地球温暖化対策セミナー(アジア・太平洋地域)　J-96-03147

1. **PURPOSE** The purpose of this seminar is to assist participating countries in Asia and the Pacific in: (1) participating in the "Framework Convention on Climate Change" and, (2) preparing for the implementation of the Framework Convention by providing the latest information on global warming, the Framework Convention of Climate Change, and Japanese legislative and institutional arrangements.
2. **MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures (a) overview of scientific information on global worming including its mechanism and impacts (b) outline of the Framework Convention on Climate Change (c) methodologies to develop inventories of GHG sources and sinks (d) outline of legislative and institutional system to comply with the Convention, with the example of Japanese case (e) overview of technologies and contermeasures to limit GHG emissions (f) forest conservation as countermeasures to protect and enhance GHG sinks (2) field trip and study visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of countermeasures against global warming in the participating countries
3. **QUALIFICATION OF APPLICANT** (1) senior officers who are presently working in a government administrative organization and are in charge of global worming issue (2) university graduate or equivalent (3) more than 35 years of age
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Meteorological Association

MANAGEMENT OF INDUSTRIAL EFFLUENT AND WASTE

Jan. 20, '97 - Mar. 3, '97, 8 participants

産業系廃水及び産業廃棄物処理対策　J-96-03188

1. **PURPOSE** The course is designed to contribute to upgrade knowledge and techniques of the participants in the field of the management of industrial effluent and waste through lectures and observations, so as to enable them to contribute to the promotion of the most effective and appropriate measures for the environmental protection.
2. **MAIN FEATURES OF CURRICULUM** The objective of the technical sessions is to understand the balance between sustainable development and environmental conservation, and will consist of six sessions: (1) background and history of Japan's environmental policies and strategies, (2) environmental conservation in lakes, (3) industrial effluent management, (4) waste disposal management, (5) perspective strategies for environmental conservation, environmental monitoring system and impact assessment, and (6) review and discussion.
3. **QUALIFICATION OF APPLICANT** (1) University graduates or possess equivalent knowledge and/or professional experience, (2) academic staff, administrative officers, professional engineers with more than 5 years experience of practical experience in the following work: (a) environmental monitoring stations, (b) water treatment industries, (c) technical engineers of factories, especially water pollution management and/or waste disposal management, (3) under 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) International Center for Environmental Technology Transfer (ICETT)

ENVIRONMENTAL AND SAFETY TECHNOLOGY IN PETROCHEMICAL INDUSTRIES

Jan. 13, '97 - Mar. 7, '97 , 10 participants

石油化学工業における環境保安技術　J-96-03249

1. **PURPOSE** The course is implemented with emphasis on the technology and countermeasure of environmental conservation and safety in petrochemical industry to contribute to the improvement of environment in participating countries.
2. **MAIN FEATURES OF CURRICULUM** A series of lectures introduce (1) outline of the industry, (2) environmental countermeasures by administration (3) treatment technology and environmental protection measure by industry (4) disaster prevention countermeasure by industry (5) regional development and environmental conservation
3. **QUALIFICATION OF APPLICANT** (1) University graduates or possess equivalent knowledge and/or professional engineers, (2) presently holding senior positions involving high responsibility in the field of petrochemical industry or its development programme (3) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA, (2) International Center for Environmental Technology Transfer (ICETT)

POLLUTION CONTROL OF COAL-FIRED THERMAL POWER PLANTS

Jan. 13, '97 - Mar. 10, '97, 5 participants

石炭火力発電公害防止　J-96-03271

1. **PURPOSE** The purpose of this course is for participants to learn techniques for collection, measurement and analysis of exhaust gas emitted from a coal-fired thermal power plant and ambient air. Participants are expected to acquire the knowledge and technology required for air pollution control through Japanese experience and methods of the exhaust gas monitoring system and other pollution countermeasures.
2. **MAIN FEATURES OF CURRICULUM** The curriculum consists of lectures, practices and observations in the proportion of 2:1:1. The main subjects are; (1) introduction of administrative regulations and guidance of pollution control (2) techniques of collection, measurement and analysis of air (3) a method to remove soot and dust generated by coal combustion (4) treatment technology on sulfur oxides, nitrogen oxides, etc. (5) visits to plants and related facilities
3. **QUALIFICATION OF APPLICANT** (1) university graduates or equivalent (2) engineers engaged in pollution control at a coal-fired thermal power plant (3) have more than three years of practical experience (4) be between 25 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Environmental Affairs Bureau, City of Nagoya
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

WETLAND CONSERVATION AND PROTECTION OF MIGRATORY BIRDS

Oct. 1, '96 - Nov. 3, '97, 5 participants

湿地及び渡り鳥保全 J-96-03231

1. **PURPOSE** The purpose of the course is to enhance professional knowledge and techniques required for middle-class government technical officials in participating countries who are in charge of the conservation of wetlands, especially protection of migratory birds. The course also intends to contribute to the promotion of international cooperative projects conforming to the Ramsar Convention, in pursuit of site-specific conservation, management, and wise use of wetlands and protection of migratory birds.
2. **MAIN FEATURES OF CURRICULUM** The curriculum consists of the following five parts, (1) lectures: (a) historical background of nature conservation in Japan, (b) administration of nature conservation, including administration by local government in Japan, (c) wetland research techniques, (2) presentation and discussions: (a) presentation of Country Reports, (b) group discussions on the promotion of conservation and wise use of wetlands and protection of migratory birds, (3) research work: (a) survey on vegetation of wetlands, (b) techniques for bird-banding, (4) management work: (a) restoration of reed-beds, (5) field trip and study visit: (a) function of purification of reed-beds, (b) ecotourism activities in wetlands, (c) incubation activities of fish of wetlands, etc.
3. **QUALIFICATION OF APPLICANT** (1) technical officials presently in charge of nature conservation and/or management administration in central or local government with 3 or more years of experience in this field, (2) university graduates or possess equivalent technical qualifications in this field, (3) not more than 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICO), JICA (2) Environment Agency (including National Park Office) (3) Kushiro International Wetland Center

CONSERVATION AND SUSTAINABLE MANAGEMENT OF CORAL REEFS (OCEANIAN, CARIBBEAN AND INDIAN OCEAN COUNTRIES)

Oct. 14, '96 - Nov. 24, '96, 5 participants

サンゴ礁保全(大洋州・カリブ・インド洋諸国) J-96-03240

1. **PURPOSE** This course is designed to contribute to the promotion of coral reefs conservation. The purpose of the course is to provide technical officials in charge of conservation of coral reefs of tropic and sub-tropic countries with the knowledge and skills on research and planning methods and practical measures required for the promotion of sustainable management of coral reefs.
2. **MAIN FEATURES OF CURRICULUM** This course is focused on the introduction of Japanese administration in nature conservation especially of coral reefs, national parks management and information exchange among participants. The course will be conducted in the form of lectures, practices, discussions and observation tours. The following major subjects will be covered in the course: (1) outline of environment conservation system and activity in Japan, (2) conservation and sustainable management of coral reefs ecosystem, (3) methods of research and conservation of coral reefs area
3. **QUALIFICATION OF APPLICANT** (1) be technical official presently engaged in coral reefs conservation and/or management administration in a central or local government or its attached organization, with practical experience of 5 or more years, (2) be university graduate or equivalent, (3) be skilled in snorkeling, (4) be not more than 45 years of age
4. **TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Environment Agency (3) Yaeyama Marine Park Research Station, Marine Parks Center of Japan

HEAVY METAL POLLUTION CONTROL

Jan. 13, '97 - Mar. 30, '97, 6 participants

有害金属汚染対策 J-96-03304

1. **PURPOSE** The purpose of this course is to make participants understand the importance of harmful metal pollution measures through examples of pollution caused by harmful metal (i.e., lead in exhaust gas from automobiles, Minamata disease, and Itai-itai disease). The participants will master techniques to control source of pollutant techniques through practice and the analysis method of harmful metal in source of pollutant, the air industrial wastewater, river water, soil, and plants, and thereby to contribute to establish pollution measures in respective countries.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) toxicity evaluation of toxic substance (2) case study on harmful metal pollution and its influence on plants and health (3) standard of harmful metal in the air, water, soil, and food and its restriction by laws (4) harmful metal analysis and analytic practice on the air, water, wastes, soil, and food etc. (5) influence on plants and health such as growth disorder caused by harmful metal (6) recovery strategy of polluted soil, etc., and (7) treatment technology of toxic substance
3. **QUALIFICATION OF APPLICANT** (1) middle-class technical officials or researchers in the field of environment (2) have more than 5 years' experience (3) between 30 and 40 years of age (4) university graduate and equivalent (5) have experience in environmental analysis
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Environment and Public Health Bureau (3) Osaka City Government

ANALYSIS AND INTERPRETATION OF STATISTICS

July 16, '96 - Sep. 22, '96, 10 participants

統計の解析及び解釈 J-96-03133

1. **PURPOSE** This course is designed for experienced statisticians who are engaged in data production, particularly those who analyze, interpret and prepare statistical reports for policy makers, planners and other decision makers. The purpose of the course is to assist participating countries in strengthening their statistical capabilities; specifically in analysis and interpretation of statistics and report writing.
2. **MAIN FEATURES OF CURRICULUM** Curriculum consists of the following subjects: (1) introduction to statistical analysis (2) methods of statistical analysis (3) (a) economic statistics and national accounts (b) demographic and social statistics (4) workshops/seminars (5) statistical computing (6) project work
3. **QUALIFICATION OF APPLICANT** (1) have a basic knowledge of statistics (2) have a university degree in either statistics, mathematics, economics, sociology or have passed the six months General or Practical Statistics Course of SIAP or have similar training (3) have at least five years experience in survey/census related work or in the construction/analysis of statistical indicators (4) over 30 and under 45 years of age (5) have sufficient knowledge of statistical computing (in particular, applicants should have basic knowledge of DOS, and have some experience with at least one word processing package, and preferably one tabulation and/or graphics package)
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
5. **REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

WATERWORKS ENGINEERING

June 17, '96 - Sep. 14, '96, 8 participants

水道技術者養成 J-96-03186

1. **PURPOSE** Through lectures and practices, the course is designed to provide participants with basic knowledge and comprehensive technology regarding overall water supply, including water resources, intake, treatment, and distribution facilities, and water service installations. It also provides information on the integrated methodology of planning and technology required for operation and maintenance. The final goal of the course is to contribute to improving and promoting the water supply in developing countries, ensuring a safe and potable drinking water supply for communities.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on technical exercises. It mainly deals with; (1) water leak prevention (2) water quality control (3) water treatment facilities (4) water distribution planning and pipe network (5) design and construction management (6) water service installations
3. **QUALIFICATION OF APPLICANT** (1) a university graduate or a person who has equivalent technical qualifications in this field, and has more than three years of practical experience, (2) a technical official in charge of waterworks in central or provincial government, or in local bodies, (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Waterworks Bureau

WATERWORKS ENGINEERING FOR COLD REGIONS

Oct. 7, '96 - Dec. 8, '96, 8 participants

寒冷地水道技術者養成 J-96-03252

1. **PURPOSE** Focused on the technical problems of waterworks caused by climatic characteristics in cold regions, this course is designed to train technicians by providing basic knowledge and comprehensive techniques of water-supply system, integrated planning and designing methods of waterworks, and techniques for operation/maintenance of waterworks facilities.
2. **MAIN FEATURES OF CURRICULUM** This course is emphasizes on technical exercise: (1) water leakage prevention (2) water quality control (3) water treatment facilities (4) water distribution planning and pipe network (5) design and construction management (6) water service instillations
3. **QUALIFICATION OF APPLICANT** (1) technical official in charge of waterworks in central or local government, or in public bodies with more than three years of practical experience (2) university graduate or equivalent (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Waterworks Bureau

OPERATION AND MAINTENANCE OF URBAN WATER SUPPLY FACILITIES

June 10, '96 - Aug. 17, '96, 7 participants

都市上水道維持管理 J-96-03217

1. **PURPOSE** This course is intended for experts and administrators who are expected to take responsible roles in the improvement of main waterworks in their respective countries where deterioration of water sources and the lack of water supply due to the increase of population in urban areas is a serious problem. The purpose of this course is to provide participants with broad knowledge such as the strategy for general maintenance and management of facilities, establishment of maintenance system, water purification technology, etc., while making effective use of existing facilities.
2. **MAIN FEATURES OF CURRICULUM** This course is conducted mainly by practice and discussion, and report making is requested at the end of each session. Main contents are: (1) introduction of waterworks, (2) operation and maintenance of water supply facilities, (3) water purification technology, (4) planning of urban water supplying system
3. **QUALIFICATION OF APPLICANT** (1) engineer or technical administrator engaged in the operation and maintenance of urban water supply facilities, (2) have experience of at least 5 years in the above mentioned field, (3) between 28 and 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Osaka Municipal Waterworks Bureau, (3) Osaka International House Foundation.

NON-REVENUE WATER MANAGEMENT (LEAKAGE CONTROL)

Jan. 13, '97 - Mar. 10, '97, 8 participants

上水道無収水量管理対策 J-96-03311

1. **PURPOSE** The purpose of this course is to provide engineers who are presently engaged in the field of waterworks with comprehensive knowledge of non-revenue water management, focusing on leakage control.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, observations and practices. The main themes are: (1) water distribution planning & pipe network (2) countermeasures for water leakage (3) water supply equipment (4) metering system (5) mapping management (6) countermeasures for natural disasters
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) currently engaged in the field of waterworks for more than five years (3) between 27 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Waterworks Bureau, City of Nagoya (3) other public institutions and private enterprises
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

OPERATION AND MAINTENANCE OF SEWERAGE FACILITIES

Aug. 12, '96 - Oct. 13, '96, 6 participants

下水道維持管理 J-96-03158

1. **PURPOSE** The course is designed for technical administrative officials engaged in providing sewerage works in developing countries. The purpose of this course is to give them training in the maintenance of sewers and wastewater treatment plants, utilization of resources (i. e., treated wastewater and sludge), and control of water pollution due to industrial wastewater, and thereby to improve their capability of managing and carrying out sewage works.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on practice and exercise concerning operation and maintenance of sewerage facilities. It mainly deals with; (1) basic concept of sewerage system (2) maintenance of sewers (3) management of wastewater treatment plants (4) utilization of treated wastewater and sludge (5) controlling water pollution due to industrial wastewater
3. **QUALIFICATION OF APPLICANT** (1) be a university graduate or equivalent in this field, and have more than three years of practical experience (2) be a senior technical officer in charge of sewage works in central or provincial government, or in local bodies (3) be a under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sewerage Bureau, City of Sapporo

SEWERAGE TECHNOLOGY FOR STORMWATER DRAINAGE

Sep. 2, '96 - Dec. 5, '96, 6 participants

都市排水 J-96-03131

1. **PURPOSE** The purpose of this course is to offer technical administrative officers an opportunity to acquire knowledge and technological know-how on sewerage system improvement (basic planning, designing, construction, and maintenance), with emphasis on rainwater drainage works in urban areas, and hence contributing to the improvement of the expertise of the leading administrative officers in this field, and the effective execution of sewerage system improvements in participating countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on laboratory experiments and introduction of Japanese experience. The main themes are: (1) introduction to sewerage system (2) urbanization and urban drainage (3) improvement of urban sewerage system and countermeasures against stormwater (4) designing and construction of urban drainage facilities (5) maintenance of urban drainage facilities (6) improvement of urban infrastructure
3. **QUALIFICATION OF APPLICANT** (1) university graduate or those with equivalent technical qualifications in this field, and have five or more years of practical experience (2) between 30 and 40 years of age (3) technical administrative officers in charge of sewage works in the government or government-affiliated organizations
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Osaka Sewerage Works Bureau, Osaka Municipal Government (3) Osaka City Sewarage Engineering Association
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

LIVING ENVIRONMENTAL PROTECTION TECHNIQUE

Sep. 9, '96 - Dec. 7, '96, 8 participants

生活環境保全技術 J-96-03196

1. **PURPOSE** The knowledge and technology of monitoring and surveying the living environment are necessary for taking measures for environmental problems. Training will be carried out at the fields in Hiroshima Prefecture to help the improvement of living environment, disseminate the knowledge and technology, promote protection of local environments and contribute to the preservation of global environment.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice, laboratory experiments and final report presentation and discussion by participants besides lectures and observation. It mainly covers: (1) knowledge and technique of monitoring and survey based on analytical methods including continuous analyzer and simple methods in the fields of air quality, water quality, noise and wastes (2) environmental information management such as analysis, data processing including remote sensing data processing, forecast, simulation, landscape montage (3) measures for problems in living environment such as environmental impact assessment, environment management system, environmental education (4) living environmental pollution control technology in the pollution source
3. **QUALIFICATION OF APPLICANT** (1) senior technical staff presently engaged directly in the environmental administration in the national and local governmental or related public organizations (2) more than three years experience in the field of environmental protection (3) university graduate or equivalent (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Hiroshima Prefectural Health and Environment Center

URBAN SOLID WASTE MANAGEMENT

Aug. 5, '96 - Nov. 17, '96, 8 participants

都市廃棄物対策 J-96-03155

1. **PURPOSE** The purpose of the course is to contribute to the improvement of public health in participating countries by training personnel to take leadership and middle management roles in planning and implementing waste management programs in their own countries. This will be accomplished by having participants learn in detail about waste management in big Japanese cities. They will also learn about the special characteristics of urban waste management programs while acquiring comprehensive knowledge on waste management.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of the Japanese experience. The main themes are: (1) outline of waste management (2) outline of regional administration (3) economics and measures to counteract pollution (4) domestic waste management (5) intermediate treat facilities (6) final disposal site (7) restrictions on industrial waste management
3. **QUALIFICATION OF APPLICANT** (1) Engineers or administrative officials with at least three years of waste management experience or an equivalent level of specialized knowledge. Applications should also be limited to those who will continue working in the field of waste management after the training course. (2) University graduates having majored in analytical chemistry or microbiology, or those with equivalent technical knowledge (3) Under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Global Environment Centre Foundation (3) Osaka City Environmental Management Bureau
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

PREVENTION OF WATER POLLUTION IN URBAN AREAS

Oct. 7, '96 - Dec. 8, '96, 5 participants

都市型水質汚濁防止 J-96-03293

1. **PURPOSE** This course is designed for engineers who are concerned with measures to prevent water pollution in urban areas of developing countries, to provide them with comprehensive water quality analysis technologies and measures to prevent water pollution and thereby to contribute to the promotion of measures to prevent water pollution in such nations.
2. **MAIN FEATURES OF CURRICULUM** This course has the top priority on analysis exercises, and consists of lectures, exercises and observation studies in the ratio of 3:5:2. Main features are as follows; (1) lectures-urban water pollution and its preventive measures, analysis method of water pollutants; (2) practices-river water analysis, drinking water analysis, water system bacillus analysis, toxic substance analysis, acid rain analysis; and (3) observation-water supply and sewerage facilities, waste management facilities, industrial waste water processing facilities, environmental monitoring center, environmental education facilities, commercial facilities to prevent environmental pollution.
3. **QUALIFICATION OF APPLICANT** (1) engineer of an environmental pollution analysis institution of a central or a local government or technical official of a department concerning environmental pollution administration (2) university graduate or equivalent with over 3 years of experience (3) between 25 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo City Institute of Public Health

COMPREHENSIVE WASTE MANAGEMENT TECHNIQUES

Jan. 6, '97 - Mar. 31, '97, 8 participants

廃棄物処理総合対策技術 J-96-03308

1. **PURPOSE** The knowledge and technology of managing and treating waste are necessary for taking measures for pollution of waste. Training will be carried out at the fields in Hiroshima Prefecture to help the improvement of waste management, to disseminate the knowledge and technology and to contribute to the solution of waste issues in the developing countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice, laboratory experiments and final report presentation and discussion by participants besides lectures and observation. It mainly covers: (1) basic knowledge and technique for the management plan, collection, transport and disposal of the waste (2) management for location of waste treatment facilities (3) technique for the test and analysis concerning with waste disposal (4) information and technique for reduction of the waste and recycling of resources.
3. **QUALIFICATION OF APPLICANT** (1) senior technical staff presently engaged directly in the administration of waste management in the national and local government, or related public organizations (2) more than three years experience in the field of waste management (3) university graduate or equivalent (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Hiroshima Prefectural Health and Environment Center
5. **REMARKS** A compulsory 30 hour Japanese language course will be conducted prior to the technical training.

ROAD CONSTRUCTION ENGINEERING

Oct. 21, '96 - Dec. 19, '96, 5 participants

道路技術者養成 J-96-03294

1. **PURPOSE** This course is designed for middle level technical officials who are concerned with road administration and projects in the developing countries. The purpose of this course is to introduce road construction engineering technologies as an indispensable infrastructure for activation and development of land and industries, and thereby to contribute to promotion of national land development.
2. **MAIN FEATURES OF CURRICULUM** (1) design and construction of roads, (2) design and construction of road structures and bridges, (3) maintenance and management of roads.
3. **QUALIFICATION OF APPLICANT** (1) middle level technical official concerned with road administration or projects, having over 3 years but under 8 years of experience, (2) between 25 and 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Construction Bureau, City of Sapporo

RAILWAY MODERNIZATION FOR ROLLING STOCK MAINTENANCE

Aug. 13, '96 - Oct. 23, '96, 8 participants

鉄道車両整備近代化 J-96-03176

1. **PURPOSE** This course is designed to help rolling stock engineers obtain a wide range of knowledge about Japanese rolling stock maintenance modernization technology. The purpose is to train future leaders who will work effectively for the growth of their countries' railway transport systems, thereby contributing to national development.
2. **MAIN FEATURES OF CURRICULUM** This course is focused on EL/EMU rolling stocks, putting emphasis on introduction of general knowledge and techniques on the following subjects. (1) basic know-how based on the experience of Japanese railway operation (2) cost effective management (rationalization) of workshops (3) improvement of maintenance technology (schedule control, material management, etc.) (4) revitalization (improvement of availability rate) (5) materials and parts manufacturing (6) manufacturing process and standardization (7) accident prevention in operation (8) latest technological developments (speed-up, etc.)
3. **QUALIFICATION OF APPLICANT** (1) have been engaged in rolling stock engineering for more than two years with more than seven years of practical experience in the field of railway engineering (especially E.M.U. or E.L. rolling stock engineering) (2) under 40 years of age (3) university/college or technical school graduate
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) Japan Railway Group (JR) (4) Japan Overseas Rolling Stock Association (JORSA) (5) Japan Association of Rolling Stock Industries (JARI)
5. **REMARKS** This course is organized for countries using rolling stocks of EL or EMU types.

RAILWAY ELECTRIFICATION PLANNING AND MANAGEMENT

Oct. 10, '96 - Dec. 22, '96, 7 participants

鉄道電化計画・管理 J-96-03179

1. **PURPOSE** The purpose of the course is to provide participants, through lectures, discussions and observations, with basic and comprehensive theories and the application of such theories to railway electrification in terms of planning, implementation, cost-effective operations, maintenance of equipment and management technology.
2. **MAIN FEATURES OF CURRICULUM** This course is designed to introduce basic theories and know-how of railway electrification to those countries that are rather inexperienced in railway electrification. The following themes will be covered in the course. (1) various equipment for the electric traction to electrify a railway (2) a rough plan for an electric traction system (3) basic methodology for maintenance of electric traction equipment (4) accident prevention measures (5) technical trends in railway electrification (6) investment planning of railway electrification, its implementation and management
3. **QUALIFICATION OF APPLICANT** (1) presently engaged, or expected to be engaged in the near future, in planning and management work for railway electrification (2) university graduate in electrical engineering and have more than five years of practical experience (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) Japan Railways Group (JR Group) (4) Railway Electrical Engineering Association of Japan
5. **REMARKS** This course is organized for countries at the early stage of railway electrification.

RAILWAY SIGNAL, TELECOMMUNICATION AND INFORMATION SYSTEM ENGINEERING

Jan. 9, '97 - Mar. 30, '97, 7 participants

鉄道情報システム J-96-03180

1. **PURPOSE** The purpose of the course is to provide the participants with the knowledge of how to plan the installation of railway signals and telecommunications equipment through lectures and to introduce them to the workshops with recent manufacturing techniques, thereby cultivating leading signal engineers who can contribute to safe train operations.
2. **MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures by signaling system users and workshop at signal manufactures, so as to provide information from both users' and producers' sides. The main topics in the course are as follows. (1) management (a) signal engineering in general (b) railway telecommunications in general (c) planning & development (d) maintenance (2) basics of electrical signal (a) fundamentals (b) switch point (c) track circuit (d) blocking system (e) interlocking (3) safety system and others (a) Relay Interlocking and Electronic Interlocking (b) ATS (Automatic Train Stop) and ATC (Automatic Train Control) (c) CTC (Centralized Traffic Control) (d) electronic token block system (e) railway traffic control system (f) dispatcher information system (g) railway telecommunication
3. **QUALIFICATION OF APPLICANT** (1) railway signal engineering official with more than five years of practical experience (2) presently engaged or expected to be engaged in the near future, in planning and administration work in the field of signal engineering (3) university/college graduate or equivalent (4) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) Japan Railway Group (JR) (4) Japan Association of Signal Industries (5) Signal Manufactures

SEMINAR ON AIRPORT ENGINEERING

Aug. 27, '96 - Oct. 17, '96, 10 participants

空港工学セミナー J-96-03213

1. **PURPOSE** The seminar is designed to contribute to upgrading technical knowledge and skill on airport engineering for engineers who mainly work in the areas of airport planning, airport construction, and maintenance of airport facilities.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese situation and systems and basic theories on airport planning and management. The major subjects are; (1) civil aviation in general (2) airports in general (3) airport planning (4) design and construction of airports (5) maintenance of airports
3. **QUALIFICATION OF APPLICANT** (1) university graduate in civil engineering or architecture or equivalent (2) currently employed by their government or by public authorities for civil aviation as airport engineer or be newly-appointed personnel who will manage airport civil engineering matters (3) have more than five years of occupational experience in the fields of airport civil engineering such as in airport planning, airport construction, or maintenance (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Civil Aviation Bureau, Ministry of Transport

EXECUTIVE'S SEMINAR ON PUBLIC WORKS RESEARCH AND DEVELOPMENT (ASIAN COUNTRIES)

Oct. 13, '96 - Oct. 24, '96, 8 participants

土木技術研究開発幹部セミナー(アジア諸国) J-96-03152

1. **PURPOSE** This seminar is intended for executive engineers in leading posts to prepare and promote public works research and development in Asian countries. The purpose of this seminar is to improve executive personnel who can efficiently and properly contribute to implementation of infrastructure and public works, thus leading to development of each country.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on the report presentation, discussion in the field of public works, and study trip. It mainly covers; (1) presentation of Country Report (2) introduction and analysis of the current situation and problems of public works in developing countries and Japan (3) discussion on specific subjects (4) study trip
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent in the field of public works engineering (2) director general or equivalent high-ranking officials responsible for management or administration of public works in government or research institutions
4. **TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) Public Works Research Institute, Ministry of Construction

SEMINAR ON PUBLIC WORKS ADMINISTRATION IN REGIONAL GOVERNMENT

Sep. 2, '96 - Oct. 31, '96, 5 participants

地域土木行政セミナー　　J-96-03290

1. **PURPOSE** In developing nations, "sustainable development" is called for public works projects. Spread of technologies and promotion of competent people for sustainable development is a pressing need. This course is designed for the middle level engineers in civil works in developing countries. The purpose of this course is to teach legislative systems, budgeting, execution systems, construction flow, environmental concerns, construction technologies and other topics by lectures, seminars and on-the-spot observation studies, and thereby to contribute to development of national land in developing countries.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, seminars, and observations. **(Lecture)** legislative systems, budget systems, execution systems, role allotment of the national and local governments, planning and construction flow concerning public work, and harmonization of the public works and environmental protection. **(Seminar)** Opinion exchanges between the lecturers and the trainees. **(Observation)** Observation of different kinds of public works facilities and construction sites.
3. **QUALIFICATION OF APPLICANT** **(1)** middle level technical officials who are engaged in public works administration with more than five years of experience in this field, **(2)** under 40 years of age; **(3)** university graduate or equivalent
4. **TRAINING INSTITUTIONS** **(1)** Hokkaido International Centre, Sapporo (HICS), JICA **(2)** Department of Public Works, Hokkaido Government

ENVIRONMENTAL ASSESSMENT IN INFRASTRUCTURE DEVELOPMENT

May 6, '96 - July 20, '96, 8 participants

社会資本関連環境影響評価　　J-96-03184

1. **PURPOSE** To contribute to harmony of development and environmental preservation in participating countries by training infrastructure development engineers in the techniques required in environmental assessment, assessment of effects on environment, measures for environmental preservation, etc. for minimizing the effects of infrastructure development on environment, maintaining favorable environment for the people, and for preserving nature.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, observations, group studies, and study tours as follows. **(1)** regional plans **(2)** environmental plans **(3)** environmental assessment **(4)** environmental projections **(5)** environmental preservation measures **(6)** assessment of effects on environment
   * Under the word "Environment", this course deals with water quality, noise, vibration, air quality, animals and vegetation
3. **QUALIFICATION OF APPLICANT** **(1)** university graduate in civil engineering or equivalent **(2)** five or more years of experience in infrastructure development administration **(3)** under 40 years old in age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Engineering Affairs Management Section, Minister's Secretariat, Ministry of Construction (MOC) **(3)** International Affairs Division, Economic Affairs Bureau, MOC **(4)** Planning Department, Kinki Regional Construction Bureau, MOC **(5)** Japan Construction Training Center Foundation (JCTC)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

SOCIAL INFRASTRUCTURE DEVELOPMENT AND PLANNING

Jan. 6, '97 - Mar. 16, '97, 8 participants

社会資本整備計画　　J-96-03132

1. **PURPOSE** This course offers to those who belong to the government or government affiliated organizations of developing countries an opportunity to acquire the contemporary knowledge and techniques concerning the roles of infrastructure, methods and process of survey, analysis, and planning, through lectures, observations and group studies
2. **MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants and group studies. It covers very broad technical fields; roads, railways, ports, water supply, sewage system, dams, and telecommunication in order for participants to obtain wide knowledge and technique to prepare comprehensive plants for the infrastructure. The main themes are: **(1)** introduction and social scheme of infrastructure development **(a)** development and economic effect of infrastructure in Japan, cultural climate and social infrastructure, Japanese overseas technical cooperation in infrastructure development **(2)** regional/urban planning **(a)** regional development, city planning, water supply system, sewage system, garbage management **(3)** highway, transport, telecommunication planning **(a)** road network, urban transport, railways **(4)** river/port planning **(a)** river improvement and management (water resources, flood control), port and harbour **(5)** case study (group discussion) on infrastructure development plants
3. **QUALIFICATION OF APPLICANT** **(1)** university graduates or those who have equivalent educational qualifications preferably in the field of civil engineering, and have at least five years' experience in planning infrastructure development (roads, railways, ports, water supply and sewage systems, dams, telecommunication systems, etc) **(2)** under 40 years of age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Engineering Affairs Management Section, Minister's Secretariat, Ministry of Construction (MOC) **(3)** International Affairs Division, Economic Affairs Bureau, MOC **(4)** Planning Department, Kinki Regional Construction Bureau, MOC **(5)** Japan Construction Training Center Foundation (JCTC)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

URGENT DISASTER RESTORATION SYSTEM

Oct. 7, '96 - Dec. 20, '96, 8 participants

緊急災害復旧システム　　J-96-03301

1. **PURPOSE** The purpose of this course is to provide technicians who are engaged in infrastructure maintenance with comprehensive knowledge and techniques on the restoration system from disasters and reconstruction methods, and thereby to contribute to the establishment of the restoration system in developing countries
2. **MAIN FEATURES OF CURRICULUM** This course includes lectures and practices on **(1)** the outline of the great Hanshin earthquake, **(2)** mechanism of earthquake disaster, **(3)** aseismatic technology, **(4)** predicting earthquakes, **(5)** mechanisms of ordinary disasters in rivers and roads, **(6)** disaster prevention plan, **(7)** disaster-prevention-city plan, **(8)** activities at the initial stage and rescue system, **(9)** evacuation measures, **(10)** protection of lifeline, **(11)** communication at the time of disasters, **(12)** disaster prevention, **(13)** disaster rescue method and its application, **(14)** administrative work of reconstruction for restoration, and **(15)** group research (disaster restoration plan)
3. **QUALIFICATION OF APPLICANT** **(1)** technical executive officials who are engaged in civil engineering **(2)** have more than 7 years' experience **(3)** between 30 and 39 years of age **(4)** university graduate and equivalent **(5)** civil engineer
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Japan Construction Training Center Foundation

URBAN GREENERY AND PARK ADMINISTRATION

Aug. 19, '96 - Nov. 10, '96, 6 participants

都市緑化行政 J-96-03154

1. **PURPOSE** The course is intended for administrators in participating countries who are responsible for promoting projects to increase greenery and park constructions in urban areas. It will include in-depth study of governmental policies and technical issues related to increasing urban greenery, preserving existing green spaces, city parks, natural parks and recreational facilities. Basic knowledge and experience necessary for the participants to respond in an informed manner to policy proposals and decisions will also be covered. The overall aim of the course is to upgrade the technical abilities of the leading governmental administrators and thus enabling them to contribute to the improvement of the living environment in developing countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience and basic theories of urban greenery and park administration. The main themes are: (1) creation of green space (a) policies of urban design with flowers and greenery, planning and design of planting, planning and policies of parks and green spaces (2) preservation and conservation of green spaces (a) national parks, Japanese gardens
3. **QUALIFICATION OF APPLICANT** (1) management and supervisory administrators in the field of urban greenery and park development with practical experience of at least five years (2) under 40 years of age (3) university / college graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Osaka International House Foundation (3) Public Works Bureau, Osaka Municipal Government
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

PLANNING FOR THE DEVELOPMENT OF URBAN FACILITIES

Sep. 30, '96 - Dec. 14, '96, 8 participants

都市施設整備計画 J-96-03195

1. **PURPOSE** The course is designed to train urban planning officers and engineers to be leaders in the field of urban facilities planning. This is accomplished through special training programmes which teach techniques for the planning of roads, water works, public space, etc. in the medium sized City of Obihiro (i. e. population: 170,310, area: 618.94 km², population density: 275/km²)
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience and basic theories of urban planning including planning presentation by participants. The main themes are: (1) road and traffic facilities (2) public space; parks, green area (3) service facilities and treatment plants; waterwork, electricity, gas services, sewage and filth treatment plant and waste disposal (4) waterway; rivers and dams (5) facilities for education and culture; schools
3. **QUALIFICATION OF APPLICANT** (1) engineer or administrative officer who is presently engaged in planning for urban facilities and has experience in this field more than five years (2) over 25 and under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) City of Obihiro

TECHNOLOGY FOR PREVENTION FROM PREMATURE DETERIORATION OF CONCRETE STRUCTURES

Jan. 6, '97 - July 2, '97, 5 participants

コンクリート構造物耐久性向上技術 J-96-03270

1. **PURPOSE** The purpose of this course is to provide knowledge and information on prevention of premature deterioration of concrete structures in order to disseminate the technology in this field and to improve the durability of concrete structures in participating countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) method of corrosion investigation of existing ferroconcrete structures (2) basic engineering technique of concrete (material examination, mixing examination, etc.) (3) basic corrosion engineering technique (4) chemical analysis technology on quality of concrete (5) study on improvement of quality of concrete, material, and construction technique by using concrete material in respective countries (6) making a guideline about corrosion prevention of structures and improvement of durability
3. **QUALIFICATION OF APPLICANT** (1) technical officials in charge of construction of concrete structures or engineers who are engaged in research in this field (2) have more than 5 years' experience (3) between 27 and 40 years of age (4) university graduates
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) General Building Research Corporation
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (70 hours).

GLOBAL MAPPING (ENVIRONMENT)

June 10, '96 - Aug. 18, '96, 5 participants

環境地図 J-96-03226

1. **PURPOSE** This course is designed to introduce the significance and technical background of global maps covering the whole world in the standardized method based on international cooperation, and to upgrade administrative skills of surveying and mapping. The course emphasizes the importance of preparing environmental maps of uniform standards which cover a broad area, and expects participants to acquire the knowledge and technology necessary for preparing such maps.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, practices and discussions and observation. Main subjects of the curriculum are as follows: (1) outline of global mapping, (2) geographical information processing technology, (3) application of geographical information system, (4) digitalization of maps, (5) remote sensing, (6) survey law. practices on (4), (5) and digital elevation model make up forty percent of the program.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) more than seven years of experience in this field, (3) a section head or an equivalent of a national institute related to surveying and mapping, (4) under 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA, (2) Geographical Survey Institute (GSI), Ministry of Construction

POSTAL OPERATION MANAGEMENT (FOR ISLAND REGIONS)

May 6, '96 - June 2, '96, 7 participants

郵便業務管理(島しょ地域) J-96-03229

1. **PURPOSE** This course is intended for participants from countries who are engaged in the management of mail in island regions. The status quo of Japan's mail system and its experience will be introduced aiming to contribute to solve various problems participating countries face.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, case studies, field on-the-spot surveys. The main theme is: problems in the management of mail business in island countries and countermeasures. The subjects are as follows: (1) sorting of mail, (2) transportation, (3) collection and delivery, (4) contribution to the community, (5) sales activity, (6) personnel management.
3. **QUALIFICATION OF APPLICANT** (1) more than five years' experience in this field, (2) over 35 and under 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Postal Bureau, Ministry of Posts and Telecommunications (3) International Postal Research Center

DIGITAL RADIO COMMUNICATION ENGINEERING

May 13, '96 - Aug. 9, '96, 7 participants

ディジタル無線通信技術 J-96-03242

1. **PURPOSE** The purpose of the course is to introduce to participants the basic and practical knowledge on digital radio communication engineering.
2. **MAIN FEATURES OF CURRICULUM** The course will be conducted in the form of lecture, discussion, practical exercises and observation tour. The main themes are: (1) digital radio technology (2) satellite, mobile and rural communication technology (3) radio network design (4) administration technology
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent in telecommunication or electrical engineering (2) working for telecommunication administrations or common carrier organizations except broadcasting stations for at least 3 years (3) have experience of more than 1 year in the field of radio communication engineering (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA, (2) Suzuka Training Institute, NTT
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

INTERNATIONAL OPTICAL FIBER SUBMARINE CABLE SYSTEM ENGINEERING

Jan. 13, '97 - Mar. 21, '97, 7 participants

国際光海底ケーブル通信技術 J-96-03243

1. **PURPOSE** The purpose of this course is to introduce the participants to fundamental knowledge on the international optical fiber submarine cable and optical repeater, etc., developed and utilized in Japan through lectures as well as field practice at a cable landing station.
2. **MAIN FEATURES OF CURRICULUM** The course mainly consists of lectures and observations. The main items covered in this course are as follows: (1) optical fiber communication (2) international optical fiber submarine cable system (3) planning of international optical fiber submarine cable system (4) maintenance (5) related subjects (6) field practice (7) observation
3. **QUALIFICATION OF APPLICANT** (1) university graduates in telecommunications and/or electrical/electronic engineering, or equivalent (2) persons with fundamental knowledge of optical fiber system and digital communications (such as digital transmission Principles of PCM, multiplexing, synchronization, etc.) (3) engaged in the field of international telecommunication services, and also currently engaged in or expected to be engaged in international optical fiber submarine cable system (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD Engineering and Consulting, Inc. (KEC)

TELECOMMUNICATION STANDARDIZATION

Jan. 20, '97 - Mar. 16, '97, 8 participants

電気通信標準化技術 J-96-03244

1. **PURPOSE** The purpose of this course is to introduce the participants to fundamental knowledge about the telecommunications standardization activities, by introducing Japanese experience and know-how such as the standardization structure, organization, up-to date international ISDN services and technology.
2. **MAIN FEATURES OF CURRICULUM** This course aims to present Japanese experience in telecommunications standardization, and covers; (1) administration (2) international standardization activities (especially in ITU) (3) standardization activities in Japan (4) previous trends of standardization activities (5) comprehensive study
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (telecommunications technology) (2) official engaged in the field of telecommunications (3) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (2) Ministry of Posts and Telecommunications

STATISTICAL INFORMATION SYSTEM FOR AGRICULTURE

July 9, '96 - Sep. 21, '96, 8 participants

農業統計情報システム J-96-03130

1. **PURPOSE** The purpose of the course is to provide information on systematized methodology by using the computer to be adopted for such statistical operations like survey design and compilation of statistical information on agriculture.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course. (1) agricultural statistics (a) role (b) contents and methodology (2) agricultural census (3) sample survey (a) theory and methods (b) design of annual sample survey (sample census) of agricultural holdings (c) design of basic survey of livestock (d) design of crop survey (area survey, production survey) (4) exercise of field survey (5) method of computer use (a) programming (b) personal computer operation (6) observation study
3. **QUALIFICATION OF APPLICANT** (1) government official engaged in planning and administration of agricultural statistics (exclude forestry and fishery statistics) (2) university graduate or equivalent (3) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistics and Information Department, Ministry of Agriculture, Forestry and Fisheries (MAFF) (3) National Federation of Statistics Association on Agriculture, and Forestry

AGRICULTURE-RELATED INFORMATION PROCESSING

Jan. 20, '97 - Mar. 20, '97, 6 participants

農業分野における情報処理技術 J-96-03300

1. **PURPOSE** The purpose of this course is to acquire computer operation skills of agriculture-related information network systems through experience of operating network systems, and thereby to apply them in the field of agriculture.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) theories on agricultural information (methods of information gathering, processing, and disposal); (2) introduction to computer networks; (3) introduction to programming (spreadsheets, Visual Basic, etc.)
3. **QUALIFICATION OF APPLICANT** (1) engaged in agricultural administration in the government or other related institution, or engaged in agricultural improvement, and more than 3 years' experience; (2) university graduate or equivalent, with an interest in computers (and with keyboard-operating experience, either with typewriters or with word processors), and (3) between 25 and 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) Fujitsu Higashi-Hokkaido Systems Engineering, Ltd. (3) City of Obihiro

GENERAL AGRICULTURE (OISCA SPECIAL TRAINING COURSE)

Jan. 20, '97 - Dec. 19, '97, 24 participants

オイスカー般農業 J-96-03079

1. **PURPOSE** The purpose of the course is to provide participants with theoretical and practical knowledge and techniques in the fields of crop production and agricultural machinery mainly through practical studies so that they can serve as agricultural leaders in their countries.
2. **MAIN FEATURES OF CURRICULUM** In the course, the emphasis is put on lectures, practical training and field studies. The main themes are; (1) rice cultivation (2) vegetable cultivation (3) fruit cultivation (4) land improvement (5) land survey (6) investigations and trials (7) agricultural machinery
3. **QUALIFICATION OF APPLICANT** (1) agricultural staff or those who are engaged in agriculture as progressive farmers with occupational experience of more than two years in their specialities (2) between 20 and 30 years of age (3) graduate of GCE 'O' Level (10 years education) or equivalent
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) OISCA Nishi-Nippon Training Centre (3) OISCA Shikoku Training Centre (4) OISCA Chubu-Nippon Training Centre
5. **REMARKS** A compulsory intensive Japanese language course will be conducted in parallel with the technical training and lectures at OISCA Training Centres for three months (378 hours).

FARMING TECHNOLOGY IN SLOPING AREAS FOR ENVIRONMENTAL CONSERVATION

Aug. 26, '96 - Oct. 19, '96, 5 participants

傾斜地域環境保全型農業 J-96-03215

1. **PURPOSE** The purpose of this course is to transfer the technology of agriculture in mountainous regions through lectures, practices and observation, which Hiroshima Prefecture has long accumulated, and thus contributing to the promotion of agriculture and the environmental conservation of developing countries.
2. **MAIN FEATURES OF CURRICULUM** The main themes are: (1) understanding the characteristics of the natural conditions of agriculture in sloping areas (2) cultivation and management techniques suitable to sloped land (irrigation and drainage, fertilizer application, soil management and pest control) (3) observation of the actual conditions in Hiroshima Prefecture (rice terrace, cultivation of *konjak* and fruit trees)
3. **QUALIFICATION OF APPLICANT** (1) engaged in agricultural experiments, agricultural extension work, or agricultural administration (2) occupational experience of more than three years in the field of agriculture (3) university graduate or equivalent (4) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA, (2) Hiroshima Prefectural Agriculture Research Center, (3) Agricultural Improvement and Extension Offices in Hiroshima Prefecture.
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for 5 days.

SEED PRODUCTION OF UPLAND CROPS

(not conducted in JFY 1996)

畑作物の種苗生産

1. **PURPOSE** The purpose of this course is to provide technical officials and technicians with advanced and scientific knowledge and techniques required for sound seed production and applied cultivation method on upland crops such as potato, beans and maize through lectures, experiments and practices. It also aims to contribute to the improvement of demand and supply situation of foods and the diversification of dietary habits in participating countries.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes, and the emphasis is put on technical experience and practice. (1) apical meristem culture (2) fundamentals of breeding (3) plant propagation in net house (4) elimination of diseased plants (5) diagnosis of disease (6) production of serum for disease detection (7) crop cultivation (8) seed production (9) propagation and extension of disease-free seeds (10) storage and usage of genetic resources
3. **QUALIFICATION OF APPLICANT** (1) technical official and technician engaged in seed production and related works of upland crops with more than seven years experience (2) university graduate or equivalent (3) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) National Center for Seeds and Seedlings, Ministry of Agriculture, Forestry and Fisheries (3) Tokachi Station, National Center for Seeds and Seedlings, MAFF (4) Tokachi Agricultural Experiment Station, Hokkaido
5. **REMARKS** (1) A compulsory intensive Japanese language course will be conducted prior to the technical training for seven days. (2) This year (in Japanese Fiscal Year 1996), this course will not be offered.

HORTICULTURE IN PROTECTED ENVIRONMENT

Sep. 16, '96 - Dec. 15, '96, 5 participants

施設園芸技術 J-96-03269

1. **PURPOSE** Provide knowledge and information on plant production in protected environments, such as computer controlled greenhouses, in order to increase the production of specific cash crops in participating countries. The course introduces simple facilities and proper techniques which now draw much attention.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) outline of horticulture institution (2) basics of cultivation technique (3) basics of computer technique (4) information on botanical organisms (5) economy and management of horticulture
3. **QUALIFICATION OF APPLICANT** (1) technicians who work in the agricultural laboratory (2) more than 3 years' experience (3) between 25 and 35 years of age (4) university graduates majoring in agriculture
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) College of agriculture, University of Osaka Prefecture
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

INTRODUCTORY GENE MANIPULATION FOR AGRICULTURE

July 29, '96 - Dec. 1, '96, 8 participants

農業生産のための遺伝子操作技術 J-96-03214

1. **PURPOSE** Participants are expected to master basic biotechnology by learning fundamental technology of gene manipulation containing agrobacterium. Participants will experiment on the extermination of pest insects with microbial insecticides, elimination of mercury-containing and slowly-decomposing compounds using recombinant microorganisms, breeding using cell fusion technology with yeast or cells of higher plants. The knowledge acquired through the course can be helpful for environmental improvement in their respective countries and for plant breeding that best matches their natural environment.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on laboratory experiments. The main themes are: (1) culture of microorganisms (2) nucleic acid extraction and separation techniques (3) electrophoresis techniques of nucleic acid and proteins (4) transformation methods (5) DNA enzyme treatment techniques (6) detection and identification techniques for transformed products (7) DNA amplification by the PCR method (8) sequence analyses of nucleic acid and protein (9) computer skills for genetic engineering
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) researchers engaged in the field of agricultural products, and employees of governmental organizations in agricultural research (3) under 35 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) College of Agriculture, University of Osaka Prefecture
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT THROUGH THE PARTICIPATION OF LOCAL FARMERS

Sep. 9, '96 - Oct. 10, '96, 10 participants

農民参加による農業農村開発 J-96-03287

1. **PURPOSE** Aviation of rural districts is indispensable to achieve stabilization and improvement of agricultural production, thus to eliminate poverty in developing nations. The purpose of course is, therefore, for local government staff to train competent persons among those who will be in charge of the development of rural districts. By incorporating methods for the advancement of communities and people, as well as knowledge and technologies related to general consolidation of rural districts, including establishment of distribution systems, reinforcement of farmers' organizations and utilization of the land and water resources.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, case studies on the concerned areas, on-the-spot training in rural districts, and observation studies at related facilities and general consolidated districts: (1) community development (introduction of cases for community development planning methods to establish organizations, promotion of participation of women in the development, agriculture and rural development projects with farmers' participation, (2) Rural development (water management, distribution planning, community environment development plan, domiciliation environment etc.), (3) improvement of Agricultural Production (farm readjustment, land readjustment, agricultural management development plan, etc.), (4) maintenance and management methods (management of desolate lands and energy management for rural districts).
3. **QUALIFICATION OF APPLICANT** (1) an administrator of local government with more than ten years of practical experience who is presently concerned with agriculture and rural developments (2) university graduate or equivalent (3) under fifty years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Japan Agricultural Land Development Agency

PRODUCTION DU RIZ

Feb. 24, '97 - Oct. 24, '97, 5 participants

米生産(仏語) J-96-03278

1. **BUT DE STAGE** Le stage a pour but, le transfert de connaissances de la riziculture pratiquée au Japon, aux stagières, et l'amérioration de leur niveau technique par le biais d'expérimentations pratiques. Ainsi ils pourront contribuer à l'amélioration de la production du riz dans leur pays, par la diffusion des connaissances techniques acquises au Japon.
2. **NOMBRE DE PARTICIPANTS QUI SONT ACCEPTEE** Cinq (5) (Un participant d'un pays en principe)
3. **PROGRAMME DE FORMATION** Les cours seront dispensés sous forme de conférence (25%), d'expérience, des travaux pratiques (50%), des observations (20%) et de présentation de rapport d'expérimentation.
4. **QUALIFICATION DES CANDIDATS** (1) chargés des services de formation agricole ou de mise en valeur dans le domaine rizicole, (2) titulaire d'un diplôme universitaire ou équivalent (3) capables de parler et comprendre parfaitement le français (4) âgés de moins de 35 ans (5) aquis de l'expérience de riziculture plus de 3 ans
5. **ORGANISME RESPONSABLE DU STAGE** Centre Internationale de Formation de Tsukuba (TBIC), JICA
6. **AUTRE** En règle générale, la langue française sera utilisée au cours du stage, lorsque le cours sera donné en japonais, l'interprète francophone se présentera. Le cours intensif de langue japonaise est organisé avant le stage de formation, pour trois semaines (50 heures).

RICE CULTIVATION (LAOS, VIETNAM, CAMBODIA)

Feb. 24, '97 - Oct. 24, '97, 9 participants

稲作(インドシナ諸国) J-96-03281

1. **PURPOSE** The purpose of the course is to introduce practical knowledge and techniques of rice production to the participants who are engaged in agricultural extension or training of farmers.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, practices, experiments and study tours. It mainly covers: (1) lecture (a) rice agronomy (b) rice physiology (c) plant protection (d) soil and fertilizer (e) rice breeding (f) agricultural extension (g) farm economy (h) farm machinery (i) land improvement (2) practice and experiment (a) field experiment on specific subjects (b) laboratory experiments (c) field practices (3) study tour (a) farm household survey (b) agricultural research stations (c) agricultural cooperatives (d) extension offices (e) industries related to agriculture
3. **QUALIFICATION OF APPLICANT** (1) technical official presently in charge of extension service of rice or training on rice (2) university graduate or equivalent (3) over 26 and under 35 years of age
4. **TRAINING INSTITUTIONS** Tsukuba International Centre (TBIC), JICA
5. **REMARKS** A compulsory intensive Japanese language course will be conducted along with the technical training for three weeks (50 hours).

AGRICULTURAL AND RURAL DEVELOPMENT

June 10, '96 - Aug. 29, '96, 5 participants

農業農村整備 J-96-03216

1. **PURPOSE** This course is designed for specialists and civil engineers engaged in agricultural and rural improvement projects. The participants will be expected to learn civil engineering methods (e.g. planning and implementation techniques) related to the improvement of agricultural production infrastructure, through the study of relevant projects, such as the construction of dams for agriculture, irrigation and drainage systems, etc. This course is also designed to deepen knowledge of agricultural and rural improvement projects aimed at maintaining a stable food supply, based on case studies of past projects.
2. **MAIN FEATURES OF CURRICULUM** This course will emphasize field observations in the Obihiro-Tokachi area (Hokkaido, Japan), which is regarded as one of the major sites of large-scale upland and dairy farming operations in Japan. It mainly covers the following subjects: (1) general systems of project implementation and civil engineering related to agricultural production infrastructure improvement projects (2) civil engineering technology focused on dam construction projects for agriculture and on irrigation and drainage systems (3) methods of improving the living environment in rural areas
3. **QUALIFICATION OF APPLICANT** (1) be technical engineers with expertise in agricultural improvement projects, especially in agricultural-use dam construction projects and in irrigation and drainage systems for upland farming (2) have more than three years of practical experience (3) be at least 25 and no more than 45 years of age (4) be a university graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) City of Obihiro

AUTOMATION OF AGRICULTURAL MACHINERY (AGRI-MATION)

June 24, '96 - Oct. 3, '96, 7 participants

農業機械自動化技術 J-96-03261

1. **PURPOSE** The purpose of this course is to provide agricultural engineers with an understanding of the principles and mechanism of farm machinery, to be able to develop, improve and repair farm machinery in their respective countries. Moreover, participants will acquire knowledge of fundamental technology for the agri-mation of farm machinery, which will aid computer-assisted research and development of agricultural machinery.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes. (1) farm machinery theory and practice (2) training in agri-mation based on an understanding of the improvements necessary in farming (3) computer programming (C-language) (4) training in relay control; programmable control; microcomputer (Z80) use; sensor use; pneumatic control; etc.
3. **QUALIFICATION OF APPLICANT** (1) researcher, educational instructor and engineer engaged in improvement, development and research activities of farm machinery (excluding paddy farming) (2) have enough knowledge of operating computers (3) more than five years experience in the field of farm machinery (excluding paddy farming) (4) university graduate or equivalent (5) between 25 and 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) Obihiro City Industrial Technology Center

FOOD PROCESSING AND PRESERVATION TECHNOLOGY

Jan. 27, '97 - Mar. 3, '97, 7 participants

食品加工・保全技術 J-96-03309

1. **PURPOSE** Appropriate processing and preservation technology is very useful to prevent the deterioration of agricultural raw products and processed foods. The basic knowledge and skills of food processing and preservation technology are provided to the participants, in order to develop the food industry as well as to increase farmers' income by producing value-added agricultural products.
2. **MAIN FEATURES OF CURRICULUM** The curriculum of the course consists of lectures, laboratory practices and field studies, and covers the following issues: (1) quality evaluation of food stuff (2) food analysis (3) food processing using agricultural raw foods (4) food preservation of agricultural raw products and processed foods (5) field study at a food processing factory. The participants are required to make report presentations and discussion at the end of the course.
3. **QUALIFICATION OF APPLICANT** (1) senior technical staff presently engaged in research and development or quality control of processed foods (2) more than 3 years experience in the field (3) university graduate or equivalent (4) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Hiroshima Prefectural Food Technology Research Center
5. **NOTES** The Hiroshima Prefectural Food Technology Research Center mainly deals with following foods: rice, wheat, beans (cereals and beans), orange, grape (fruits), cabbage, and chineseleaf (vegetables).

SWINE PRODUCTION AND BREEDING TECHNOLOGY

Jan. 13, '97 - May 16, '97, 6 participants

豚育種・生産技術 J-96-03187

1. **PURPOSE** The purpose of the course is to transfer the latest technology and knowledge of swine production and breeding technology in Japan to participating countries facing such necessities. It is designed to train leading technologists who can promote swine breeding, and ultimately contribute to the progress of animal industry.
2. **MAIN FEATURES OF CURRICULUM** The course covers the whole range of swine breeding technology. The subjects are as follows: (1) new technology of swine breeding (2) feeding and management technology (3) disease and sanitary measures (4) artificial insemination technology using frozen semen (5) embryo transfer technology (6) meat analysis by scanning scope
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have more than three years' occupational experience in the field of swine breeding at government institutes or universities (3) not more than 40 years old
4. **TRAINING INSTITUTIONS** (1) Tohoku Branch Office, JICA (2) National Livestock Breeding Center, Ministry of Agriculture, Forestry and Fisheries (MAFF)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for 3 weeks.

FORAGE PRODUCTION AND UTILIZATION TECHNOLOGY FOR RUMINANT ANIMALS

Mar. 24, '97 - Aug. 23, '97, 6 participants

飼料生産・利用技術 J-96-03247

1. **PURPOSE** The purpose of the course is to transfer advanced technology on forage production and utilization for cattle, through lectures and excursions. Participants will also acquire skills for improving forage situations while maintaining sustainability through practicals of various aspects of forage production and utilization including soil science, animal nutrition, etc.
2. **MAIN FEATURES OF CURRICULUM** The course covers various aspects of forage production and utilization technology. The major subjects are as follows; (1) soil science, (2) soil analysis, (3) pasture establishment and management, (4) forage preservation, (5) forage analysis, (6) feed resources, (7) seed production, cleaning and processing, (8) breeding of pasture species, (9) ruminants nutrition, (10) biometrics, (11) basic personal computer operation
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) currently engaged in the field of extension and/or research on forage production and utilization at government institutions with at least 5 years of experience in the job, (3) over 26 years and under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tohoku Branch Office, JICA (2) National Livestock Breeding Center, Ministry of Agriculture Forestry and Fisheries (MAFF)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three (3) weeks.

ADVANCED TECHNOLOGY FOR VETERINARY DIAGNOSIS

May 13, '96 - Nov. 24, '96, 6 participants

獣医バイオ診断技術 J-96-03150

1. **PURPOSE** This course is organized to introduce to experienced veterinarians advanced technology required for the recent diagnosis and preventive methods of animal diseases on the basis of conventional techniques.
2. **MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants and individual training in the laboratory. Each participant is to take one of the following subjects for their individual training. The themes are: (1) bacterial genetics (2) bacterial plasmid (3) detection of bacterial antigen by immunological methods (4) antigenic analysis of protozoa (5) serodiagnosis of protozoan disease (6) parasite immunology (7) antigenic analysis of viruses (8) molecular virology (9) laboratory animals (10) immuno- and general pathology (11) diagnostic immunopathology (12) avian pathology (13) electron microscopy (14) pathophysiology using laboratory animals (15) clinical biochemistry (16) detection of mycotoxin by immunological methods (17) biological statistics (18) gene cloning and expression (19) PCR and RELP analysis (20) immune cytology (21) molecular immunology
3. **QUALIFICATION OF APPLICANT** (1) qualified veterinarian (2) presently engaged in research work with more than five years' of experience (3) over 25 and under 40 years of age
4. TRAINING INSTITUTIONS (1) Tsukuba International Centre (TBIC), JICA (2) National Institute of Animal Health (NIAH), Ministry of Agriculture, Forestry and Fisheries
5. REMARKS A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

DIAGNOSES AND CONTROL OF RABIES AND OTHER VIRAL ZOONOSES

Jan. 13, '97 - Mar. 23, '97, 6 participants

狂犬病などのウィルス性人畜共通伝染病の診断法と予防法 J-96-03288

1. **PURPOSE** This course is designed for veterinarians in Asian and African regions that are urban-rabies characteristically stricken. The purpose of this course is to introduce technologies concerning diagnosis and control of rabies and other viral zoonoses to the regions and to improve and promote the measures to counter such problems in the regions.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, practices, and observations of related institutions, aiming at an effective technical guidance from both the theoretical and practicable viewpoints: (1) lectures: (a) general introduction to viral zoonoses: (b) details of viral zoonoses and international epidemiology: (c) clinical, epidemiological diagnosis, laboratory diagnosis, vaccine diagnosis, immunotherapy and quarantine; and (2) practice (a) animal inoculation of rabies virus, tissue culture and virological diagnosis.
3. **QUALIFICATION OF APPLICANT** (1) technical officer or research worker with more than three years' experience, who is presently concerned with research or any other activities in this field, (2) qualified as a veterinarian, (3) under 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Graduate School of Veterinary Medicine, Hokkaido University

CLINICAL TECHNOLOGY FOR VETERINARY DIAGNOSIS

Aug. 12, '96 - Nov. 18, '96, 6 participants

獣医技術 J-96-03291

1. **PURPOSE** This course is designed for veterinarians from developing countries. The purpose of this course is to provide them with veterinary knowledge with emphasis on preventive sanitation for animal health care, and techniques of the diagnosis and treatment of illnesses, (i.e., guidance in food sanitation for maintaining the safety of foodstuffs from livestock, measures for the prevention of rabies and other virulent infections diseases) and thereby to improve standards in the field of veterinary science in respective country.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, practices and observations. (1) livestock feeding management (2) internal medicine for animals (3) animal surgery (4) animal reproductive organs (5) prevention and extermination of mastitis in cattle (6) clinical pathology (7) food and environmental sanitation (8) animal protection and management, and prevention of rabies.
3. **QUALIFICATION OF APPLICANT** (1) clinical veterinarians or veterinarians who work for central or local government (2) have more than five years' experience in this field, (3) university graduate with a degree of veterinary medicine or equivalent (4) under 35 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Hokkaido Veterinary Medical Association

LABORATORY DIAGNOSIS OF POULTRY DISEASES

Aug. 26, '96 - Mar. 6, '97, 6 participants

家禽疾病の診断技術 J-96-03193

1. **PURPOSE** To improve sanitary control of poultry and to contribute to enhancement of the health of citizens in participating countries, through recognition of the importance of sanitary control of meat and poultry diseases and through acquisition of methods for laboratory diagnosis of poultry diseases appropriate for respective conditions in their countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on laboratory experiments. The main themes are: (1) basic procedures of contamination inspection of meat and in diagnosis of poultry diseases (microbiology, public health, pathology, immunology, medical science, internal medicine) (2) visual and microscopic bacteriological examination of infection development of hens experimentally infected by pathogens (3) study tour of poultry processing site (4) isolation and stabilization of pathogens of poultry diseases and in treatment of infected/contaminated meat
3. **QUALIFICATION OF APPLICANT** (1) college or university graduates, or clinical laboratory technicians or diagnostic technicians in the relevant field (2) more than three years' experience in this field (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) College of Agriculture, University of Osaka Prefecture
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks.

ADVANCED STUDIES ON PROTOZOAN DISEASES

Sep. 30, '96 - Sep. 7, '97, 10 participants

上級原虫病研究 J-96-03248

1. **PURPOSE** The purpose of this course is to promote human resources in the research field of protozoan diseases in participating countries by improving the skills and the competence of participants who are primarily responsible to lay the foundation for the development of control measures against the diseases in their own countries.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes. After lectures of common subjects, all participants are attached to one of the most fitted research laboratory such as the following fields in accordance with the purpose and speciality of each participant. (1) research field of Toxoplasma, Coccidia and related diseases (2) research field of Hemosporozoam and related infections (3) research field of Trypanosoma and related infections (4) research field of pathophysiological responses of protozoan infections (5) research field of applied molecular immunology
3. **QUALIFICATION OF APPLICANT** (1) Bachelor of science degree in biology, zoology, veterinary medicine, medical science and/or any related field (2) presently engaged as a permanent staff in academic institution or research laboratory (3) not more than 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) Research Center for Protozoan Molecular Immunology, Obihiro University of Agriculture and Veterinary Medicine
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks.

PRESERVATION TECHNIQUES OF MEAT AND MEAT PRODUCTS

Jan. 13, '97 - Jul. 13, '97, 5 participants

食肉及び食肉加工品の保蔵技術 J-96-03298

1. **PURPOSE** The purpose of this course is to provide lectures and practices (i.e., scientific overview and hygienic handling, techniques of meat processing and prevention), and thereby to contribute to improvement of meat products in quality.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) methods of livestock slaughtering and carcass grading, biochemistry of post-mortem changes in flesh; (2) acquire knowledge of levels of hygiene and types of additives in the stage of processing; (3) acquire processing and preservation techniques; and (4) have become knowledgeable of packaging materials used for meat products, and the special characteristics of those materials.
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in food or meat processing (2) presently nutritionist or work in the field of lifestyle improvement, (3) graduate from technical school or equivalent (4) between 25 and 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) City of Obihiro
5. **REMARKS** A compulsory intensive Japanese course will be conducted prior to the technical training for four weeks (100 hours).

DEVASTATED FOREST RESTORATION TECHNIQUE

June 24, '96 - Oct. 11, '96, 8 participants

荒廃林地復旧技術 J-96-03157

1. **PURPOSE** The knowledge and know-how of afforestation, tree planting, soil conservation, erosion and flood control, landslide prevention and hill side revegetation are necessary for the recovery and remedy of devastated forest areas, particularly deforestation and collapse of mountains. Training will be carried out at the fields in Hiroshima Prefecture to help the participants acquire the technology for the formation of sound forests and the conservation of local environments and to contribute to the creation and conservation of a comfortable earth environment.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and practices which introduce forests and forestry in Japan, forestry and afforestation in Hiroshima Prefecture, as well as observation tours. It mainly covers: (1) planning mountainside foundation works (2) afforestation survey methods (3) planning stream works
3. **QUALIFICATION OF APPLICANT** (1) more than three years of occupational and research experience in devastated forest restoration (2) university graduate or equivalent (3) under 35 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Forestry Department, Hiroshima Prefectural Government (3) Forestry Training Institute (FTI), Forestry Agency
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for 1 week (25 hours).

REFORESTATION PROMOTION LEADER

Sep. 3, '96 - Nov. 29, '96, 10 participants

森林造成指導者 J-96-03245

1. **PURPOSE** The purpose of this course is to upgrade the planning ability of participants who are responsible for the promotion of reforestation in degraded forest land in each country, by introducing policies, techniques and countermeasures in Japan as well as discussing the problems which participating countries confront.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) outline of forestry and wood industry in Japan (2) forestry and forest products administration, systems and organizations in Japan (3) forestry techniques in Japan (4) forestry techniques development and extension in Japan (5) observation tours in several forestry regions (6) presentation and discussion on forestry in participating countries
3. **QUALIFICATION OF APPLICANT** (1) be personnel in positions responsible for planning work in the central and local governmental forestry organizations (not be researcher of public organizations or instructor or professor of colleges/universities) (2) not more than 45 years of age (3) forestry universities/colleges graduates or equivalent with occupational experience of more than eight years in the field of forestry administration
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Overseas Forestry Consultants Association (JOFCA) (3) Forestry Agency

SUSTAINABLE MANAGEMENT OF MANGROVE ECOSYSTEMS

Sep. 5, '96 - Nov. 11, '96, 5 participants

持続可能なマングローブ生態系管理技術 J-96-03262

1. **PURPOSE** The purpose of this course is for participants to acquire managerial technique for sustainable utilization of mangrove ecosystem by studying the characteristics of the ecosystem and by designing proper management plans. In this way, this course aims to contribute to the environmental conservation of the world.
2. **MAIN FEATURES OF CURRICULUM** (1) understanding of mangrove ecosystems (2) effective utilization of mangrove ecosystems in the respect of resource production (3) survey of mangrove forest (4) re-production technology of mangrove ecosystems (5) extension method of techniques and making a technical report
3. **QUALIFICATION OF APPLICANT** (1) be university graduate or equivalent, and be working presently in forest or mangrove field more than three years (2) be involved with mangrove management as a leader or a potential leader (3) have a good command of English enough to give an oral presentation in English (4) not be more than 41 years old
4. **TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA, (2) International Society for Mangrove Ecosystems (ISME)

APPLICATION OF SYMBIOTIC MICROORGANISMS IN TROPICAL AGRICULTURE AND FORESTRY

Sep. 2, '96 - Dec. 15, '96, 5 participants

熱帯農林業における共生微生物の利用技術 J-96-03267

1. **PURPOSE** The purpose of this course is to provide practical knowledge on identification, manipulation and inoculation techniques of microorganisms (especially of symbiotic), whose effective use can increase agricultural and/or forestry production in the tropics. The course also focuses on how laboratory instruments are used in this field, in order to contribute to sustainable development in the tropics through sound utilization of natural products.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, practices and observation trips: (1) function of symbiotic microorganisms in natural ecosystem (2) identification of symbiotic microorganisms (3) microorganism culture method (4) microorganism Immobilizing technique (5) microorganism inoculation technique (6) carbonization technique and charcoal utilization
3. **QUALIFICATION OF APPLICANT** (1) university graduates (preferably in agriculture, forestry or biology) or equivalent on higher qualification, and have been engaged in agricultural, forestry on microbiological research on education for over three years (2) under 40 years of age (3) university graduates
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Biological Environment Institute, Kansai Environmental Engineering Center Co., Ltd.
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (45 hours).

NATURAL FOREST MANAGEMENT AND REGIONAL FORESTRY BY COMMUNITY PARTICIPATION

Aug. 18, '96 - Oct. 27, '96, 7 participants

天然林経営と住民参加による地域林業 J-96-03296

1. **PURPOSE** The purpose of this course is to introduce systems and technologies of natural forest conservation, and thus contribute to the preservation of forest resources in developing countries. In addition, through the introduction of examples of methods of citizen-led forest creation and forest administration, the course will assist in the formulation of citizen-participatory regional forestry policies appropriate to the conductions of each country.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) forest administration, (2) natural forest conservation technology and construction of forest roads for the promotion of natural forest conservation; (3) the role of forest owners' cooperatives; (4) forestry education; (5) forest creation activities by citizen participation.
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in governmental or institutional forest administration, and at least five years' experience, (2) university graduate in forestry, or equivalent (3) under forty years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) Hokkaido Forestry Bureau, (3) Hokkaido Government, (4) City of Obihiro
5. **REMARKS** A compulsory intensive Japanese course will be conducted prior to the technical training for two weeks (50 hours).

FISHERY SCIENCE AND TECHNOLOGY

Mar. 24, '97 - June 27, '97, 5 participants

海洋漁業生産管理 J-96-03205

1. **PURPOSE** The course aims to enhance the ability of those who are expected to contribute to sustainable development of coastal and offshore fisheries in participating countries by providing knowledge and skills of fishery production and management as well as marine resource survey and research techniques.
2. **MAIN FEATURES OF CURRICULUM** The training programme consists of lecturers, practical field work, discussions and study visits. The following subjects are covered in the course. (1) Japanese technology of fishery production and management (a) theory of fishery (b) fishery management (2) fishing gear and fishing methods applicable in participating countries (3) hydrography necessary for proper management of fishery grounds (a) marine ecology (b) resource analysis (4) fishing mechanics (a) measurement of located fish (b) development of resource quantity research methods (5) navigation (6) fishing boat management
3. **QUALIFICATION OF APPLICANT** (1) be engaged in the planning or management of fishery production and marine research, (2) have five years' occupational experience in the mentioned field, (3) be between 25 and 40 years of age, (4) be university graduates or the equivalent.
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA, (2) National Fisheries University

SEMINAR ON FISHERY RESOURCE MANAGEMENT

Jan. 14, '97 - Mar. 2, '97, 5 participants

水産資源管理セミナー J-95-03272

1. **PURPOSE** The purpose of this seminar is to introduce various fishery resource management schemes, both traditional and modern, as well as knowledge on environmental protection and coastal community development. The seminar is designed for persons currently involved in fishery resource management.
2. **MAIN FEATURES OF CURRICULUM** This seminar is comprised of a series of lectures and discussions. The lectures will cover introduction of fisheries resource management schemes and their evaluation from economic, biological, mathematical, political, sociological and anthropological viewpoints. In the discussions, participants will present their experiences in fishery resource management and discuss effective fishery resource management schemes based on knowledge gained during the seminar. The main lecture subjects are: (1) basic theory of resource management and examples of their application (2) stock assessment (3) modern fishery resource management schemes (4) traditional resource management scheme operating in local communities (5) stock enhancement (6) future trends in relation to domestic and international marine policies.
3. **QUALIFICATION OF APPLICANT** (1) government official who is presently in charge of formulation or implementation of fishery resource management scheme and with more than three years' occupational experience (2) an university graduate or equivalent (3) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** Kanagawa International Fisheries Training Centre (KIFTC), JICA

SEMINAR ON PLANNING AND MANAGEMENT OF FISHING PORT FACILITIES AND MARKETING SYSTEM

Jan. 14, '97 - Mar. 2, '97, 5 participants

漁港及び流通施設計画管理セミナー J-96-03273

1. **PURPOSE** The purpose of this seminar is to provide comprehensive knowledge on the establishment of fish collection, distribution and marketing system laying emphasis on planning and maintenance of fishing port and other facilities as the core of the system.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, emphasis will be placed on introducing Japanese fish collection, distribution and marketing systems and the functions of the fishing port and central facilities within these systems. A detailed knowledge of civil engineering associated with fishing port design and construction is not required. The main subjects are: (1) fishery marketing system (2) planning, management and administration of the fishing port (3) planning, management and administration of fish market and related facilities (4) fish processing industries (5) fishermen's organization (6) fishery statistics (7) fish trade.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) government official engaged in planning and management of fishing port facilities and fish distribution system with more than three years' occupational experience (3) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** Kanagawa International Fisheries Training Centre (KIFTC), JICA

ENTERPRISE NETWORKING FOR REGIONAL DEVELOPMENT

Sep. 24, '96 - Nov. 11, '96, 6 participants

企業ネットワークによる地域開発 J-96-03233

1. **PURPOSE** The purpose of this course is to train the participants to learn the strategy of local industrial development through creating a system of enterprise networking within a region. The participants will be introduced to: (1) the significance of local industries in national economic development in Japan, (2) the methods of promoting local industries as a core of regional development and (3) the applicability of the concept of enterprise networking in participating countries.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course: (1) concept of local industries, (2) development of local industries in Japan, (3) various methods of creating enterprise networking, (4) role of local government in promoting enterprise networking, (5) role of private sector initiatives in maintaining and developing enterprise networking and (6) training materials which will emphasize field trips by which the participants will have ample opportunity to observe existing enterprise networking in metal processing and textile industries in Niigata Prefecture, Japan
3. **QUALIFICATION OF APPLICANT** (1) currently working on the planning or implementation of local regional industrial development projects and policy, and preferably under 40 years of age, (2) university graduate or equivalent, (3) good background in either industrial extension services or actual experience in business management.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA, (2) International University of Japan (IUJ), International Association of Niigata Prefecture.

APPLICATION FOR STANDARDIZATION AND QUALITY SYSTEM

Feb. 17, '97 - Mar. 23, '97, 6 participants

標準化・品質システム活用 J-96-03220

1. **PURPOSE** This course is designed to upgrade the skills of participants from ASEAN countries who are expected to transfer such methods as quality system based on ISO (International Organization for Standardization) 9000 Series, and TQM (Total Quality Management) which encourages quality improvement activities in their respective countries. Through such methods, the course aims to activate market economics as well as to promote international trade.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is mainly to put on introduction of Japanese experience through practical lectures including case studies, various discussions, and factory visits. The main themes are: (1) philosophy of TQM, (2) motivation, (3) TQM methodology-adoption of SQC (Statistical Quality Control), QC (Quality Control) story, etc., (4) evaluation of TQM implementation, (5) model course programing.
3. **QUALIFICATION OF APPLICANT** (1) having occupational experience of at least 3 years in this field, and be engaged in the job of the same subject presently, (2) between the age of 30 and 45, (3) university graduates
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Japanese Standards Association.

RESEARCH ON MEASUREMENT TECHNOLOGY AND STANDARD

Oct. 7, '96 - Aug. 2, '97, 5 participants

計測技術研究 J-96-03319

1. **PURPOSE** Designed for researchers and technicians of metrological laboratories, this course aims to contribute to the establishment of measurement standard in participating countries. Participants will.
2. **MAIN FEATURES OF CURRICULUM** Participants are expected to gain fundamental knowledge of measurement as well as broad knowledge of the legal metrology system. Furthermore, the following will also be gained depending on the theme participants select: (1) "measurement techniques": ability to accomplish research (2) "measurement standard": ability to accomplish calibration of measurement standard.
3. **QUALIFICATION OF APPLICANT** The course is comprised of a common programme for all participants and individual research training. (1) common programme: (a) lectures (4 weeks; outline of National Research Laboratory of Metrology, legal metrology system, fundamentals of metrology, measurement control, etc.) (b) study trips (two 1 week trips, total of 2 weeks) (2) individual training: (8.3 months; participants are to choose one theme out of six themes offered.)
4. **QUALIFICATION OF APPLICANT** (1) presently be a researcher or engaged in technical research work at governmental or semi-governmental organization with 3 years or more of experience. (2) university graduates or equivalent. (3) over 25 and under 40 years of age.
5. **TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) National Research Laboratory of Metrology (NRLM), Agency of Industrial Science and Technology, Ministry of Trade and Industry
6. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

INORGANIC MATERIALS AND TECHNOLOGY FOR ELECTRONICS INDUSTRY

Sep. 2, '96 - Dec. 15, '96, 5 participants

エレクトロニクス工業のための無機材料工学 J-96-03268

1. **PURPOSE** The purpose of this course is to provide knowledge and information on inorganic materials and technology, which is the basis of electronic manufacturing industries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) outline of inorganic materials and technology (2) inorganic materials process (3) materials analysis and characterization (4) evaluation of materials (5) date processing experiments (6) specialized training
3. **QUALIFICATION OF APPLICANT** (1) technical officers or researchers in the field of inorganic materials (2) have more than 3 years' experience (3) between 25 and 35 years of age (4) have a master's degree
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Osaka Municipal Technical Research Institute
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (45 hours).

ENERGY CONSERVATION AND RECYCLING TECHNOLOGY IN STEEL MAKING

Oct. 28, '96 - Feb. 28, '97, 8 participants

省エネルギーリサイクルによる製鋼技術 J-96-03312

1. **PURPOSE** The purpose of this course is to provide engineers who are presently engaged in the field of electrical steel making with comprehensive knowledge of controlling arc furnace and continuous casting operations, especially in view of energy conservation and recycling.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and observations. The main themes are: (1) steel material (2) electric arc furnace equipment and control units (3) electrical steel making and its control (4) continuous casting operation and computerized control (5) secondary refining technology (6) quality control (7) use of scrap materials (8) energy conservation
3. **QUALIFICATION OF APPLICANT** (1) university graduate in metallurgical or mechanical engineering or equivalent (2) currently engaged in the field of electrical steel making for more than three years; preferably at steel making plants and not be academic researchers or technicians (3) under 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Aichi Steel Works, Ltd. (3) Chubu Steel Works, Ltd. (4) Daido Steel Co., Ltd. (5) Topy Industries Ltd. (6) other public institutions and private enterprises
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (80 hours).

NON-DESTRUCTIVE INSPECTION TECHNIQUE

Feb. 24, '97 - July 4, '97, 8 participants

非破壊検査技術 J-96-03194

1. **PURPOSE** The purpose of the course is to provide the indispensable principle and techniques of non destructive inspection method for quality assurance of industrial products, e.g. non destructive testing of castings, forgings, rolled steel products or weldments, so as to develop their own industry.
2. **MAIN FEATURES OF CURRICULUM** In this course, theory of non destructive inspection techniques, the selection of proper inspection method according to the proposed use as well as the knowledge and skills of evaluating inspeciton results will be studied through lectures, practice and field trips. It mainly covers: (1) radiographic examination (2) ultrasonic test (3) magnetic particle examination (4) penetration test (5) eddy current examination
3. **QUALIFICATION OF APPLICANT** (1) graduate from the faculty of engineering at university (2) engineer of governmental inspecting organization or related organization (3) have experience of welding structures and castings, or will be engaged in inspection work including non-destructive inspection
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) Fukuoka Industrial Technology Center
5. **REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

WELDING TECHNOLOGY II

May 13, '96 - Oct. 31, '96, 8 participants

溶接技術 II J-96-03212

1. **PURPOSE** In order to bring up well-qualified engineers who are able to manage welding construction and maintenance, the course provides theoretical and practical knowledge on welding technology.
2. **MAIN FEATURES OF CURRICULUM** This course will be conducted in the form of lecture, practical exercises and factory observations. The main themes are: (1) welding processes and equipment (2) materials and their behaviours during welding (3) construction and design (4) fabrication, application engineering (5) fundamental practical operation (6) factory observation
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) welding engineer or researcher (3) occupational experience of more than three years (4) between 26 and 35 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Japan Welding Engineering Society
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

PLANT MAINTENANCE ENGINEERING (LATIN AMERICAN COUNTRIES)

May 6, '96 - Sep. 29, '96, 7 participants

プラントメンテナンス技術(中南米諸国) J-96-03235

1. **PURPOSE** The purpose of this course is to enhance the capability of maintenance managers or engineers of continuous process plants who intend to introduce a preventive maintenance system in a plant, or have already introduced the system but have problems in carrying out the system smoothly.
2. **MAIN FEATURES OF CURRICULUM** In this course, emphasis is put on the introduction of basic subjects of computerized maintenance management and techniques, as well as practical maintenance technology and effective maintenance management on the factory floor through plant visits. The course covers: (1) computers and their applications (2) maintenance of automatic control systems (3) metal fatigue and fractography (4) equipment inspection techniques (5) non-destructive testing (6) tribology and abrasion resistance (7) lubrication techniques (8) heat treatment and hard facing
3. **QUALIFICATION OF APPLICANT** (1) engineer or manager with more than three years' occupational experience in the field of plant maintenance work (2) presently in charge of maintenance work in continuous process plants, such as iron and steel, oil refinery or chemical, cement plant, automotive plant, etc. (3) university graduate or equivalent (4) 45 years of age or less
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) Nippon Steel Corporation
5. **REMARKS** A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

MECHANICAL SPARE PARTS FOR PLANT MAINTENANCE (DESIGNING, MANUFACTURING, TESTING AND MANAGEMENT)

May 27, '96 - Oct. 25, '96, 7 participants

プラント用機械保全部品 J-96-03277

1. **PURPOSE** This training course is set up for plant maintenance managers or engineers in charge of spare parts control, procurement or manufacture of the parts. The purpose of the course is to enable participants to: (1) make out the plannings, designs or documents necessary to order spare parts for the domestic manufacturer (2) develop their ability to instruct and control the quality, cost or delivery for the domestic parts manufacturer (3) develop their ability to improve parts for prolonging useful life or reclaim broken or damaged parts
2. **MAIN FEATURES OF CURRICULUM** Participants will acquire the knowledge and techniques required for the domestic production or reclamation of spare parts. The main themes are: (1) basic subjects on machine parts and unit design techniques (2) systematizing inventory control of spare parts for repairs (3) analyzing the causes of machine parts breakdown (4) choosing proper materials as well as improving the materials by heat treatment or surface processing (5) improving parts design for longer life (6) preparation of technical specification for ordering spare parts and/or basic knowledge required for instructing parts manufacturers (7) techniques on reclaiming broken or damaged spare parts (8) applying computer to design and control of spare parts
3. **QUALIFICATION OF APPLICANT** (1) have 5 to 15 years' occupational experience in the field of maintenance engineering (2) in charge of spare parts making, purchasing and controling of spare parts (3) university graduate or the equivalent in mechanical engineering (4) between 27 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Fukuoka Industrial Technology Center
5. **REMARKS** A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

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

Sep. 16, '96 - Dec. 15, '96, 8 participants

建設機械整備(仏語) J-96-03280

1. **BUT** Le cours est destiné au personnel technique ayant les services d'entretien et de gestion des machines de construction dans les pays participants et vise à leur fournir les informations récentes de notre pays sur la spécialité concernée pour contribuer, finalement au développement technique des pays respectifs par lassimilation technique.
2. **CARACTÉRISTIQUES DU COURS** Le présent cours se caractérise par le déroulement de stage à quelques constructeurs d'équipements de construction. Cela facilitera l'acquisition de connaissances sur l'entretien et la réparation des équipements de construction ainsi que la gestion de l'atelier de l'entretien. Théorique gestion de l'equipement de construction, heure-homme standard de réparation, coût de possession de l'equipment de construction, gestion de l'atelier, carburant et lubrifiant, inspection des pièces, soudure. Pratique moteur, système d'embrayage, convertisseur de couple, boite des vitesses, bulldozer, chargeur, excavateur hydraulique, compacteur
3. **CAPACITÉS DES CANDIDATS** (1) à présent engagés plus en possession de plus de trois ans d'expérience dans le domaine de l'entretien d'équipement de construction (2) âgés de plus de 25 ans et de moins de 35 ans (3) dotés d'une connaissance suffisante de la langue française
4. **INSTITUTION DU STAGE** (1) Hachioji International Training Centre (HITC), JICA ou Centre de Formation Internationale de Hachioji (2) Division de l'Equipement de Construction, Ministère de la Construction (3) Japan Construction Mechanization Association (JCMA) ou Association Japonaise de Mecanisation de Construction
5. **REMARQUES** Le cours s'effectuera en français ou par traduction du japonais en français.

MECANIQUE AUTOMOBILE VÉHICULES DIESEL (AUTOBUS, CAMIONS POIDS-LOURDS)

Jan. 6, '97 - Mar. 23, '97, 11 participants

バス・トラック整備技術(仏語) J-96-03279

1. **BUT** Ce cours est destiné aux mécaniciens travailliant à l'entretien des autobus et des camions poids-lourd. Il vise à leur fournir les connaissances fondamentales sur le mécanisme et le fonctionnement des véhicules diesel par le cours théorique et les travaux pratiques, ainsi que les tedchniques de réparation et d'entretien.
2. **CARACTÉRISTIQUES DU COURS** Le présent cours se caractérise par l'acquisition des techniques d'entretien efficaces à travers les cours théoriques et les travaux pratiques pour chaque matière. A la fin de ce stge, les participants auront acquis les connaissances fondamentales sur les théories, les techniques de réparation et d'entretien ci-dessous concernant les autobus et les camions: moteur diesel et equipement périphériques, boite des vitesses pompe d'injection distributrice, freinage essieux avant et arrière et différential, equipement électrique
3. **CAPACITÉS DES CANDIDATS** (1) an possession de plus de trois and d'expérience dans le domaine de l'entretien et la réparation dews véhicules diésel (2) âgés de plus de 25 and et de 35 ans (3) dotés d'une connaissance suffisante de la langue française
4. **INSTITUTION DU STAGE** (1) Hachioji International Training Centre (HITC), JICA (2) La Société de Fabrication Automobile de Hino (Hino Motors Limited)
5. **REMARQUES** Le cours s'effectuera en français ou par traduction du japonais en français.

CERAMICS DEVELOPMENT TECHNOLOGY II

Apr. 15, '96 - Oct. 21, '96, 5 participants

陶磁器開発・活用技術 II　　J-96-03211

1. **PURPOSE** The purpose of the course is to provide engineers or researchers presently engaged in the development work at research or educational institutions with knowledge and techniques ranging from the study of raw materials to the improved application technology for ceramics through scientific approaches.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on practical training and related lectures. The main themes are: (1) raw materials (2) preparation of bodies (3) glaze (4) screen printing (5) firing The participants will also have the chance to observe some of the famous areas for ceramic industries, during field trips.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, and have more than three year practical experience at educational or research institution related to ceramics (2) working at ceramic manufacturing plant as an engineer or institution of ceramic research and development as a researcher, and not be craftsman (3) between 25 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) National Industrial Research Institute of Nagoya (NIEIN) (3) Tajimi City Pottery Design and Technical Center (4) Institute for Comparative Pottery, Chukyo Junior College (5) other public institutions and private companies
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks (100 hours).

ELECTRIC POWER DEVELOPMENT PLANNING

Aug. 27, '96 - Nov. 7, '96, 8 participants

電力総合開発計画　　J-96-03078

1. **PURPOSE** The purpose of this course is to introduce participants to the basic policies of Japan regarding the development of electric power, and to share the accumulated knowledge which has contributed to such policy development. The course is specifically designed to ensure that all participants will gain the necessary competence required to assume a direct role in the planning of their country's own electric power needs, and therefore contribute to the efficient development of electric power around the world.
2. **MAIN FEATURES OF CURRICULUM** The following subjects will be covered, in principle; (1) lectures (a) Japan's electric power industry. (b) orientation for Tohoku EPCo's programme (c) present situation and future prospects of Tohoku EPCo. (d) outline of power transmission, transformation and distribution facilities (e) outline of technological development (f) load forecast and power supply plan (g) power source development plan (h) operation of power system (i) fuel requirements (j) others (2) observation tours
3. **QUALIFICATION OF APPLICANT** (1) college graduate or equivalent and have more than ten years of practical experience (2) engaged in power development planning at present or in the past (3) between 30 and 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tohoku Branch Office, JICA (2) Japan Electric Power Information Center, Inc. (JEPIC) (3) Tohoku Electric Power Company, Inc. (Tohoku EPCo)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for 3 weeks.

THERMAL-ELECTRIC POWER ENGINEERING

May 13, '96 - July 4, '96, 8 participants

火力発電　　J-96-03101

1. **PURPOSE** The purpose of the course is to provide the participants with the latest information and knowledge concerning managing and technical aspects of Japan's thermal electric power industry so that the participants would be able to play greater roles for further progress and advancement of thermal electric power generation in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese situation and know-how. Following subjects are referred to in the course; (1) Japan's electric power industry (2) Japan's government-policy, planning, laws and regulations concerned with electric power industry (3) general and comprehensive information related to thermal electric power engineering in Japan, especially from the view points of planning, design, construction, operation and maintenance stages of thermal electric power stations and relevant points concerning electric power industry
3. **QUALIFICATION OF APPLICANT** (1) electrical and/or mechanical engineers presently employed by governmental or private electric power utilities and have more than three years of operation and/or maintenance experience at thermal power stations (2) under 40 years of age (3) technical college graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) Agency of Natural Resources and Energy, Ministry of International Trade and Industry (3) Japan Electric Power Information Center, Inc. (JEPIC) (4) Tokyo Electric Power Company (TEPCO)

COAL CONSERVATION AND UTILIZATION TECHNOLOGY

Sep. 9, '96 - Sep. 7, '97, 5 participants

石炭転換・利用技術　　J-96-03289

1. **PURPOSE** Coal is one of the most important energy sources, and the dependence on coal is expected to rise extremely high in the future in developing countries in the Pacific Rim region in particular. This course is to teach basics of all kinds of coal conversion processes through experiments, to make trainees understand the importance of energy and environmental problems, and thereby to contribute to the improvement of coal conversion techniques in consideration of environment circumstances of the Pacific RIM.
2. **MAIN FEATURES OF CURRICULUM** This course is separated 4 different courses of liquefaction, justification, confusion and ash utilization of coal, to learn basics of coal, methods of reaction experiments and all kinds of analysis through experiments.
3. **QUALIFICATION OF APPLICANT** (1) research worker in the central or a local government with more than three years but less than 10 years of experience, (2) university graduate or equivalent, (3) between 25 and 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Hokkaido National Industrial Research Institute
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for 4 weeks.

SOLAR POWER GENERATION AND ITS APPLICATION SYSTEM (OCEANIAN COUNTRIES)

Sep. 16, '96 - Dec. 15, '96, 5 participants

太陽光発電及び利用の技術システム(大洋州諸国) J-96-03266

1. **PURPOSE** The purpose of this course is to provide the knowledge and information on solar power generation and its application system (electrification in solitary islands, power resources of medical facilities, storage pump etc.), in order to solve the disharmony between development and environment in participating countries, especially in Oceanic countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: **(1)** lecture; basis of, **(a)** semiconductor engineering **(b)** ray engineering **(c)** battery engineering **(d)** electrical engineering **(e)** environmental engineering **(2)** lecture; **(a)** manufacturing technique **(b)** preservation of regional environment **(3)** observation of private institution applying solar power technique system **(4)** design the solar power generation system of minimum electric power in the specified study
3. **QUALIFICATION OF APPLICANT** **(1)** technical officials who are engaged in work in the field of electricity and/or energy **(2)** have more than 3 years' experience **(3)** between 25 and 45 years of age **(4)** university graduate majoring in science or engineering
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Faculty of Engineering, Osaka City University
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks. (50 hours)

SEMINAR ON BUSINESS MANAGEMENT FOR ASIA

July 8, '96 - July 28, '96, 12 participants

アジア経営セミナー J-96-03123

1. **PURPOSE** The aim of the course is to contribute to economic growth and business expansion among enterprises in Asia and the Pacific region by familiarizing managerial staff with key factors in Japan's economic growth, and with the phenomenon of Japanese-style business management which underpinned it. Through lectures, discussions and study visits, course participants will learn how Japanese industry, with its worldwide reputation for high-quality products, attained its present position, and about the production systems it employs.
2. **MAIN FEATURES OF CURRICULUM** Major subjects **(1)** present situation and future prospects of Asian and Pacific economics **(2)** development of the Japanese economy **(3)** product quality and business management methods in Japan **(a)** market research and planning **(b)** manufacturing policy **(c)** sales strategy and aftersale service **(d)** quality and Japanese-style business management **(4)** presentation of country reports **(5)** free discussion **(6)** final presentation
3. **QUALIFICATION OF APPLICANT** **(1)** persons in positions of policy making in private enterprises, or the equivalent, and who should be nominated by a business organization (e.g. the Chamber of Commerce and Industry or the Federation of Industry, etc.). It should be noted that the course will draw its examples mostly from manufacturing industry to give a picture of Japanese management methods **(2)** between 30 and 50 years of age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Pacific Resource Exchange Center (PREX)

SEMINAR ON DISTRIBUTION SYSTEM IN THE JAPANESE MARKET

Oct. 14, '96 - Nov. 17, '96, 9 participants

日本市場商品流通システムセミナー J-96-03189

1. **PURPOSE** The purpose of this seminar is to contribute to the promotion of export to Japan from participating countries. Participants will study the present state of the Japanese market through specific case studies in order to obtain an overview of the demands of the Japanese market and gain an understanding of the overall process of exporting to Japan and of the various methods of entering the market.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers; **(1)** mechanism of distribution in the Japanese market **(2)** case study of specific markets **(3)** observation and study tour of actual distribution processes
3. **QUALIFICATION OF APPLICANT** **(1)** college graduate or equivalent **(2)** individual in leadership position in export promotion at either central or local government or an official in business organizations, such as, the chamber of commerce and Industry, association of manufacturers or distributors, etc. **(3)** between 30 and 50 years of age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Pacific Resource Exchange Center (PREX)

PROMOTION OF DIRECT INVESTMENT

Jan. 6, '97 - Mar. 22, '97, 15 participants

投資環境整備 J-96-03177

1. **PURPOSE** This course, offered to senior administrators directly in charge of encouraging direct investment from abroad or officials responsible for legislative formulation, aims to contribute to the institution and development of legislation designed to promote direct investment in participating countries.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures and visits. The main themes are: **(1)** Japanese law systems for investment promotion **(a)** company formation and operation, finance, tax **(b)** employment, environmental protection **(2)** behavior of Japanese corporations' investment in foreign markets **(3)** case study on feasibility of direct investment **(4)** round table discussions
3. **QUALIFICATION OF APPLICANT** **(1)** university graduate or equivalent **(2)** senior administrators directly in charge of encouraging direct investment from abroad or officials responsible for its legislative formulation or a related field in their governments, with practical experience of at least five years **(3)** under 40 years of age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Kyoto Comparative Law Center
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

INVESTMENT PROMOTION SEMINAR (1) (ASIAN COUNTRIES)

June 25, '96 - July 28, '96, 11 participants

投資促進セミナー(1)(アジア諸国) J-96-03209

1. **PURPOSE** Direct investments from developed nations, including grants and technical transfers, are effective for stimulating industrial development of countries facing difficulties in local procurement and securing essential factors such as capital and technology. In addition, improvement of investment promotion programmes requires the cultivation of capable personnel in relevant positions of authority. This seminar is designed primarily for government officials of Asian countries, who are responsible for soliciting investments from overseas sources. Since it is essential, in receiving such investments, to understand the investor nation, a case emphasis will also be put on understanding the comprehensive or total background of Japan, including its business practices and organizational structures in Japan.
2. **MAIN FEATURES OF CURRICULUM** The main theme of this seminar is to clarify and analyze the current situation and problems of his/her own country's investment promotion.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) under 40 years of age (3) official who belongs to governmental or semi governmental organizations (e.g. investment promotion organization) with more than five years of practical experience in the administration of overseas investment
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) World Trade Center Tokyo, Inc. (WTCTO)
5. **REMARKS** This course is organized for Asian countries.

INVESTMENT PROMOTION SEMINAR (2) (LATIN AMERICAN COUNTRIES) II

Aug. 22, '96 - Oct. 5, '96, 11 participants

投資促進セミナー(2)(中南米諸国)II J-96-03210

1. **PURPOSE** Direct investments from developed nations, including grants and technical transfers, are effective for stimulating industrial development of countries facing difficulties in local procurement and securing essential factors such as capital and technology. In addition, improvement of investment promotion programmes requires the cultivation of capable personnel in relevant positions of authority. This seminar is designed primarily for government officials of the countries of Latin America, who are responsible for soliciting investments from overseas sources. Since it is essential, in receiving such investments, to understand the investor nation, a case emphasis will also be put on understanding the comprehensive or total background of Japan, including its business practices and organizational structures in Japan.
2. **MAIN FEATURES OF CURRICULUM** The main themes of this seminar are: (1) analysis of the current situation and problems of his/her own country's investment promotion (2) research paper writing on "Selection of Potential Japanese Investors"
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) under 40 years of age (3) official who belongs to governmental or semi governmental organizations (e.g. investment promotion organization) with more than five years of practical experience in the administration of overseas investment
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) World Trade Center Tokyo, Inc. (WTCTO)
5. **REMARKS** This course is organized for Latin American countries.

MANAGEMENT OF CHAMBERS OF COMMERCE AND INDUSTRY

Nov. 19, '96 - Dec. 19, '96, 5 participants

商工会議所マネジメント J-96-03221

1. **PURPOSE** The purpose of this course is to give leading managers of Chambers of Commerce and Industry a knowledge of how to manage industrial associations and how to promote medium-and small-sized businesses. In addition, this course aims to contribute to the development of human resources that are necessary for fully augmenting the social structure, industrial activities and economic growth.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course during lectures in Tokyo and a field trip: (1) seminar programme on Japan's foreign trade, economic cooperation overseas, and management and activities of Chambers of Commerce and Industry, (2) seminar programme on management of Japanese companies and discussions of country reports, (3) observation of activities by the Japan and Tokyo Chamber of Commerce and Industry, other related offices, and commercial facilities in Tokyo, (4) study trip, (5) summary, evaluation and closing ceremony.
3. **QUALIFICATION OF APPLICANT** (1) be managers/directors of sections in the Chambers of Commerce and Industry or other similar organizations, or governmental officials who are in charge of these organizations, (2) be university graduates or possess equivalent knowledge, (3) be under 45 years of age, (4) have more than 5 years of practical experience in this field.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) The Japan Chamber of Commerce and Industry (JCCI)

PRIVATE SECTOR MIDDLE MANAGEMENT FOR THE PACIFIC COOPERATION (ASIAN, OCEANIAN AND LATIN AMERICAN COUNTRIES)

June 11, '96 - July 20, '96, 39 participants

太平洋協力民間中堅実務(アジア・大洋州・中南米諸国) J-96-03122

1. **PURPOSE** The purpose of this course is to contribute to the promotion of private sector cooperation in the Pacific Basin, through the participation of middle management of private companies in Asia, Oceania and Latin America.
2. **MAIN FEATURES OF CURRICULUM** The course consists of seminars, lectures, field trip, company visits, discussions and presentation of country reports. Particular emphasis is placed upon the acquisition of knowledge in the following areas: (1) present situation and future prospects of the Pacific Basin cooperation (2) (a) Japanese economic cooperation to the Pacific Basin countries (b) Japanese economy, trade and overseas investment (c) characteristics of Japanese business organizations (3) Japanese small and medium enterprises (4) marketing and management analysis (5) business training in one of the following areas: "small and medium enterprise management", "finance and securities", or "trade".
3. **QUALIFICATION OF APPLICANT** (1) must be selected by the Chairman of the PBEC Member Committee (in countries where PBEC Member Committees are not established, the governments will select and nominate applicants) (2) middle manager of private companies or of government-related organizations excluding government officials (3) university graduate or equivalent (4) have more than three years of practical experience in the field (5) be under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA, (2) Japan Member Committee, Pacific Basin Economic Committee, (3) The Tokyo Chamber of Commerce and Industry

SEMINAR ON POLICIES FOR PROMOTION OF SMALL -AND MEDIUM- SCALE INDUSTRIES

Jan. 13, '97 - Feb. 8, '97, 8 participants

中小工業育成政策セミナー　　J-96-03250

1. **PURPOSE** The seminar is designed for senior officials in charge of industrial policies in the government in order to introduce industrial policies of Japan with special emphasis on small- and medium-scale industries.
2. **MAIN FEATURES OF CURRICULUM** The seminar covers the following: (1) small-and medium-scale industries and the post-war economic development of Japan (2) present status of small-and medium-scale industries in Japan (3) policies on organization and promotion of small-and medium-scale industries (4) financial policies for small-and medium-scale industries (5) policies on research and innovation of technology (6) environmental countermeasures (7) human resource development policy
3. **QUALIFICATION OF APPLICANT** (1) government official in charge of industrial policies for small-and medium-scale industries ranked as director of division or equivalent (2) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** Institute for International Cooperation (IFIC), JICA

SENIOR MANAGEMENT SEMINAR ON SUSTAINABLE INDUSTRIAL DEVELOPMENT

Oct. 21, '96 - Nov. 27, '96, 10 participants

持続可能な産業開発トップマネージメントセミナー　　J-96-03286

1. **PURPOSE** The purpose of this seminar is to help participants understand that industrial development can coexist with environmental conservation. Participants will also expected to understand what to emphasize, according to the conditions of respective countries, in order to achieve industrialization of their countries.
2. **MAIN FEATURES OF CURRICULUM** The course mainly consists of lectures, discussion and visits to companies and environmental conservation facilities. (1) environmental preservation in Kitakyushu City (2) management in Japanese companies (3) production management and cost management (4) quality control (5) maintenance, energy-saving and data processing
3. **QUALIFICATION OF APPLICANT** (1) be senior production managers of enterprises or senior governmental officials in charge of directing industrial management, (2) have practical experience in the relevant field, (3) be between 35 and 50 years of age, (4) be university graduates
4. **TRAINING INSTITUTIONS** (1) Kitakyushu International Techno-cooperative Association (KITA) (2) JICA Kyushu International Centre

TRADE-INVESTMENT PROMOTION (LATIN AMERICAN COUNTRIES)

Feb. 11, '97 - Mar. 16, '97, 7 participants

貿易・投資促進実務(中南米諸国)　　J-96-03151

1. **PURPOSE** The purpose of this course is to provide the staff members of the governments of Latin American countries and their related organizations with an opportunity to study how to implement policies and promotion measures for trade and investment more effectively. In addition to theoretical background information concerning the development of manufacturing industries and export promotion, Japanese experiences and procedures will be introduced.
2. **MAIN FEATURES OF CURRICULUM** This training programme places particular emphasis on the acquisition of knowledge in the following areas: (1) promotion of manufacturing industries (2) trade (export) promotion (3) measures invite suitable foreign investment (4) Japanese experiences and present situation (a) Japanese economic cooperation in Latin American countries (b) Japanese economy, trade and overseas investment (c) characteristics of management in Japan (d) functions and characteristics of Japanese business organizations (e) Japanese small and medium enterprises (f) marketing and management analysis
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) under 40 years of age (3) official who belong to governmental or semi governmental organizations (e. g. trade or investment promotion organization) with more than five years of practical experience in the administration of overseas investment
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) World Trade Center Tokyo, Inc. (WTCTO)
5. **REMARKS** The course is organized for Latin American countries.

TRADE PROMOTION SEMINAR (1) (ASIAN AND PACIFIC COUNTRIES)

Apr. 11, '96 - May 25, '96, 12 participants

貿易振興セミナー(1)(アジア・太平洋諸国)　　J-96-03207

1. **PURPOSE** The main purpose of the seminar is to inform the participants of recent knowledge and background information in the field of international trade, particularly emphasizing the successful cases made by the Japanese enterprises and organizations, so that the participants can find out effective measures to expand their own export in the future.
2. **MAIN FEATURES OF CURRICULUM** The main themes of this seminar are: (1) acquisition of the accurate knowledge and necessary information about the successful development of trade by Japanese enterprises (2) analysis of the current situation and problems of his/her own country's trade promotion (3) research paper writing on "How to increase/promote my country's export - A study of Japanese Market"
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) under 40 years of age (3) senior official who belongs to governmental or semi governmental organizations (e.g. trade promotion organization) with more than five years of practical experience in the administration of international trade
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) World Trade Center Tokyo, Inc. (WTCTO)
5. **REMARKS** This course is organized for Asian and Pacific countries.

TRADE PROMOTION SEMINAR (2) (AFRICAN, MIDDLE-EASTERN AND CARIBBEAN COUNTRIES) II

Oct. 24, '96 - Dec. 7, '96, 10 participants

貿易振興セミナー(2)(アフリカ・中近東・カリブ諸国)II　J-96-03208

1. **PURPOSE** The main purpose of this seminar is to inform the participants of recent knowledge and background information in the field of international trade in connection with Japan and the Japanese, directly and indirectly stressing some successful export promotion cases executed by Japanese enterprises and organizations. Through this knowledge and information, the participants can figure out effective measures to expand the volume of their own exports in the future.
2. **MAIN FEATURES OF CURRICULUM** The main themes of this seminar are: (1) acquisition of the accurate knowledge and necessary information about the successful development of trade by Japanese enterprises (2) analysis of situation/problems of his/her own country's trade promotion (3) research paper writing on "How to Penetrate into Japanese Market - Improvement of Product or Selection of Suitable Distribution Channels"
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) senior official who belongs to governmental or semi governmental organizations (e.g. trade promotion organization) with more than five years of practical experience in the administration of international trade (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) World Trade Center Tokyo, Inc. (WTCTO)
5. **REMARKS** This course is organized for African, Middle-Eastern and Caribbean countries.

SUSTAINABLE TOURISM DEVELOPMENT

Nov. 4, '96 - Nov. 30, '96, 10 participants

観光開発と環境保全　J-96-03307

1. **PURPOSE** Considering the meeting of the APEC Tourism Working Group in 1995, this course is designed for representatives of tourism-related ministries and agencies of APEC member Countries to discuss the methods and importance of harmonizing tourism development with environmental protection. Participants are expected to gain knowledge on policy-making, measures are personnel training for promoting sustainable tourism development in respective countries.
2. **MAIN FEATURES OF CURRICULUM** The course covers basic concepts and actual practice on sustainable tourism development as follows; (1) presentation and discussion of tourism development harmonized with environmental protection in Japan (2) based on the theoretical base established in aforementioned (1), examining actual cases of environmentally conscious tourism sites in Japan through study trips, (3) introducing cases of tourism development in participating countries: based on the contents of the training in (1) and (2), participants will present and discuss cases and proposals for sustainable tourism development
3. **QUALIFICATION OF APPLICANT** (1) in charge of planning and development at tourism-related ministries or agencies (including cultural and historical preservation and landscape and scenery). (2) college graduate or equivalent (3) between the 35 and 50 years old.
4. **TRAINING INSTITUTIONS** (1) Chugoku Branch Office, JICA (2) International Tourism Development Institute of Japan (ITDIJ)

SCIENCE EXPERIMENT IN PRIMARY EDUCATION (SOUTH ASIAN COUNTRIES)

Nov. 4, '96 - Nov. 30, '96, 10 participants

小学校における理科実験教育(南西アジア諸国)　J-96-03297

1. **PURPOSE** The course is designed for primary school teachers with leadership capabilities. The course will introduce science practices utilizing simple experiment equipment and materials at the *Obihiro Youth Science Museum Participant will also join in extra-curricular school activities and visit various education facilities. The purpose of this course is to acquire knowledge and techniques for primary science education. (i.e., instruction of science education, performing of experiments)
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) overview of Japanese education; (2) introduction of primary science education; (3) education taking place in science-activity facilities for children
3. **QUALIFICATION OF APPLICANT** (1) a primary school teacher with leadership capabilities, (2) have at least five years' experience in the field, (3) between 25 and 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) City of Obihiro
5. **REMARKS** A compulsory intensive Japanese course will be conducted prior to the technical training for three weeks (75 hours).

LOCAL EDUCATIONAL ADMINISTRATION SEMINAR (SUB-SHARAH AFRICAN COUNTRIES)

Jan. 20, '97 - Mar. 16, '97, 10 participants

地方教育行政セミナー(サブ・サハラアフリカ諸国)　J-96-03295

1. **PURPOSE** This course aims to provide an opportunity for administrators in charge of local education to understand the local educational administration system of Sapporo City, through a curriculum comprised of lectures, discussions and visits/study trips necessary to understand educational administration of Sapporo City and thereby to improve local educational administration in developing countries.
2. **MAIN FEATURES OF CURRICULUM** The course consists of lectures and visits/field trips. Each curriculum is organized to provide effective training from the viewpoint of both theory and practice as follows: (1) educational administration of Sapporo City (2) compulsory education (primary education and lower secondary education in Japan) (3) school and social education in Sapporo.
3. **QUALIFICATION OF APPLICANT** (1) be personnel in charge of the administration of education in the local government, (2) university graduate, or equivalent, (3) under 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Education Research Institute
5. **REMARKS** An intensive Japanese language course will be conducted prior to the seminar for all the participants from January 27, 1997 to February 14, 1997.

SEMINAR FOR OFFICERS OF WOMEN'S EDUCATION

Jan. 29, '97 - Feb. 26, '97, 10 participants

女性の教育問題担当官セミナー J-96-03285

1. **PURPOSE** The purpose of the seminar is (1) to study the countermeasures to expand the educational opportunity for women in developing countries through the lectures and discussions of Japan's current educational programing system, (2) to exchange views and information on various issues, and (3) to gain knowledge on educational material development
2. **MAIN FEATURES OF CURRICULUM** The seminar covers the following: (1) lectures and observations on educational programs and extension of educational opportunity for younger people, especially for girls (a) educational policies/administration system (b) school education (c) social education (d) home education (e) visits to establishments and facilities for women (2) discussions focusing on several topics relating to education: (a) women's study (b) family, community, customs and education (c) vocational training (d) sex education (e) WID (Women in Development) (3) country report presentation and discussion to identify various problems and measures to improve the education for women in participating countries.
3. **QUALIFICATION OF APPLICANT** (1) officer in charge of curriculum development/planning and extension of education, especially for women (2) university graduate or equivalent (3) have more than five years of occupational experience
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Lifelong Learning Bureau, Ministry of Education, Science and Culture (3) National Women's Education Centre

MECHATRONICS

May 6, '96 - Feb. 21, '97, 8 participants

メカトロニクス訓練 J-96-03058

1. **PURPOSE** The purpose of this training course is to offer skill improvement training to personnel who are currently involved in machining technology and who wish to acquire comprehensive knowledge, skills and techniques related to mechatronics technology. The course further aims to impart to them an understanding of the present situation of mechatronics in Japanese industry through on-site observation and to make them aware of the importance of relevant technologies and standardization of quality and processing, which are indispensable to the introduction of mechatronics in their countries. With this knowledge it is hoped participants will be in a position to contribute to the human resources development of their home countries. Participants should be intending to resume their activity in this field after completion of the course.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice and introduction of Japanese experience. The main themes are: (1) production engineering (2) machining technology (3) control technology (4) XY table production and assembly
3. **QUALIFICATION OF APPLICANT** (1) instructor at technical high school or vocational training school in the field of mechanical or machining technology (a) only applicable to the persons who have completed all the basic mechanical subjects, the person of the electrical fields will be excluded from its application (2) university graduate or equivalent (3) between 27 and 35 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Osaka Prefectural Higashi-Yodogawa Advanced Vocational Training School (HAVOT)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

AUTOMOTIVE MAINTENANCE ENGINEERING II

Nov. 11, '96 - Feb. 8, '97, 10 participants

自動車整備技術II J-96-03303

1. **PURPOSE** This course is designed for technical instructors who are engaged in vocational training. The purpose of this course is to provide them with expertise on automotive maintenance, and thereby to improve their knowledge and skills in respective countries.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures and practices on (1) basics of automotive maintenance (2) engine maintenance method (3) electric equipment method (4) car body maintenance method, and (5) industrial engineering.
3. **QUALIFICATION OF APPLICANT** (1) technical instructor in the field of automotive maintenance (2) have more than 5 years' experience (3) under 35 years of age (4) graduate from technical high school (5) have sufficient abilities of speaking and reading English.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Higashi-Yodogawa Advanced Vocational Training School

REMOTE SENSING TECHNOLOGY (ADVANCED)

Oct. 22, '96 - Dec. 4, '96, 5 participants

リモートセンシング技術(上級) J-96-03064

1. **PURPOSE** The purpose of the course is to introduce the application technology and advanced digital processing technology covering remote sensing data.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop using computers. The following are the major subjects to be covered in the course. (1) lectures (2) practice of digital analysis (a) analysis by personal computers (b) analysis with digital image processing systems (3) observation study
3. **QUALIFICATION OF APPLICANT** (1) university graduate, or equivalent with a fundamental knowledge of physics and mathematics, (2) researchers or engineers in remote sensing application fields, such as country planning, agriculture, forest management and mapping, (3) under 45 years of age, (4) person having completed the JICA Group Training Course in "Remote Sensing Technology (fundamental)" or having experienced investigation or activities in remote sensing application for more than 3 years.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Remote Sensing Technology Center of Japan (RESTEC)

NUCLEAR MEDICINE (MEDICAL AND BIOLOGICAL APPLICATION OF RADIATION AND RADIOISOTOPES) (RCA MEMBER COUNTRIES)

Aug. 27, '96 - Sep. 29, '96, 8 participants

核医学(アイソトープ・放射線の医学・生物学利用)(RCA加盟国) J-96-03237

1. **PURPOSE** The purpose of this course is to give the participants fundamental and practical knowledge on nuclear medicine and to transfer the latest techniques available in Japan in medical imaging through lectures, practice, discussion and study tours.
2. **MAIN FEATURES OF CURRICULUM** Each year, this course is conducted by taking up one of the four following subjects. (The subject is rotated every year in the listed order). (1) environmental radiation protection (2) nuclear medicine (3) radiation biology (4) radiotherapy. The subject for this year (Japanese Fiscal Year 1996) is "nuclear medicine". (In Japanese Fiscal Year 1997, "radiation biology" will be conducted.) The course mainly consists of lectures, practices, and observation tours. Special focus is put on the introduction of Japanese technology in nuclear medicine. Participants are expected to do clinical study during the course.
3. **QUALIFICATION OF APPLICANT** (1) have occupational experience of several years in nuclear medicine (2) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Institute of Radiological Sciences (3) Nuclear Safety Research Association
5. **REMARKS** This course is conducted only for RCA member countries.

CULTURAL ASSET PRESERVATION AND RESTORATION TECHNOLOGY

Feb. 17, '97 - July 13, '97, 6 participants

文化財修復整備技術 J-96-03156

1. **PURPOSE** To contribute to the preservation and restoration of cultural assets in participating countries by introducing technology accumulated in Kyoto, concentrating on restoration of wooden cultural assets. As a rule, stone cultural assets are not focused in this training course.
2. **MAIN FEATURES OF CURRICULUM** The course consists of a common programme for all participants and a following specialized training programme to meet each participant's interest. Each participant is to choose one of the following subjects for their specialized training programme. (1) wooden buildings and townscapes (2) buried cultural assets
3. **QUALIFICATION OF APPLICANT** (1) leading technical experts with at least three years' experience in the field of cultural asset preservation and restoration technology (2) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) The Agency for Cultural Affairs (3) Faculty of Engineering and Faculty of Agriculture, Kyoto University (4) Kyoto National Museum, ACA (5) Kyoto Prefectural Archaeological Research Center, (6) Kyoto City Archaeological Research Institute Incorporation (7) Kyoto Kagaku Co., Ltd. (8) University of Shiga Prefecture (9) Kyoto University of Art and Design
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks.

MUSEUM MANAGEMENT TECHNOLOGY (COLLECTION, PRESERVATION, EXHIBITION)

Sep. 30, '96 - Mar. 23, '97, 7 participants

博物館技術(収集、保存、展示) J-96-03232

1. **PURPOSE** The purpose of this course is to provide comprehensive knowledge on the role and function of contemporary museums both in theory and practice, in order to train experts who are expected to take leading roles in administration and management of museums which will contribute to the promotion of tourism and will be the center of educational and cultural activities.
2. **MAIN FEATURES OF CURRICULUM** This course includes lectures and practices on the role and function of modern museums by introducing accumulated knowledge and experience in Japan: (1) introduction of museology, (2) filing and recording, (3) exhibition technique, (4) preservation, (5) public relation and educational activity, (6) facilities and equipments.
3. **QUALIFICATION OF APPLICANT** (1) specialist with at least 3 years of experience in the field of management and administration of museums, (2) university graduate or person with equivalent technical qualification in the field, (3) between 25 and 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) National Museum of Ethnology (3) Japan International Cooperation Center.
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks (95 hours).

SEMINAR FOR SENIOR OFFICERS IN MENTAL HEALTH CARE

Feb. 10, '97 - Mar. 2, '97, 6 participants

精神医療指導者 J-96-03149

1. **PURPOSE** This seminar is designed to provide participants with an opportunity to have a comprehensive understanding of Japanese mental health services and to help psychiatrists of the participating countries define appropriate psychiatric models for their own countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar puts an emphasis on discussion, presenting experience of Japan for a case study. The main themes are: (1) legislation, including the mental health law, the medical law and other laws relevant to psychiatry (2) mental health service system and the health insurance system (3) present situation of comprehensive community mental health services (4) alcohol dependency programmes
3. **QUALIFICATION OF APPLICANT** (1) psychiatrists directly involved in mental health and in oppositions to lead the mental health services of their countries (2) able to freely exchange knowledge and opinions with others, and intend to remain in the field of mental health
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Japanese Association of Psychiatric Hospitals (JAPH)

PATHOLOGY OF GASTROINTESTINAL CANCER

Aug. 27, '96 - Nov. 22, '96, 10 participants

消化器癌病理学 J-96-03119

1. **PURPOSE** The purpose of the course is to introduce participants to recent techniques in the study of gastroenterology, especially gastrointestinal pathology, so that they will gain broader perspectives and clues for their future research as well as diagnosis techniques.
2. **MAIN FEATURES OF CURRICULUM** This course consists of common curriculum for all participants and specific practical training for each participant, to cover the following themes respectively. (1) recent gastrointestinal pathology in Japan (common curriculum mainly made up of lectures, seminars and conferences at university) (2) histological diagnosis of surgical specimens (practical training at designated hospital)
3. **QUALIFICATION OF APPLICANT** (1) established pathologist (2) university graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Tokyo Medical and Dental University Faculty of Medicine, Pathology Department

LEPROSY RESEARCH

Nov. 25, '96 - May 31, '97, 5 participants

ハンセン病医学研究 J-96-03076

1. **PURPOSE** The purpose of the course is to enable participants to pursue further theoretical and experimental studies on leprosy. They will learn up-to-date knowledge and technology indispensable to leprosy control through assigned laboratory research work. The acquired knowledge, technology, and the cultivated research mind will be useful not only for leprosy control but will also contribute to the development of biomedical sciences in participating countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on laboratory research work. Each participant is to take one of the following subjects for his/her specific study. (1) serology and seroepidemiology of leprosy and Mycobacterium leprae infection (2) development of histopathological techniques for early diagnosis of leprosy (3) kinetics of M. leprae with PCR (Polymerase Chain Reaction) (4) cell-mediated immunity of leprosy (5) development of antileprous chemotherapeutics using nude mice
3. **QUALIFICATION OF APPLICANT** (1) a medical doctor or a graduate from a faculty of science, pharmacy, agriculture, veterinary medicine, medical technology or equivalent (2) presently engaged in research or clinical work on leprosy in an organization (3) less than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) National Institute for Leprosy Research (NILR)

VIROLOGICAL DIAGNOSIS TECHNIQUE FOR POLIO ERADICATION PROGRAMME

Aug. 19, '96 - Sep. 15, '96, 7 participants

ポリオ根絶計画ウィルス検査技術 J-96-03127

1. **PURPOSE** The purpose of this training course is to provide the participants with; (1) standard technique of cell culture, (2) standard technique of isolation and typing of poliovirus, (3) introduction to molecular epidemology of poliomyelitis, and (4) information on the outline of polio vaccine control.
2. **MAIN FEATURES OF CURRICULUM** In this course the emphasis is put on lectures and laboratory experiments. The main themes are: (1) lecture (a) global eradication of poliomyelitis (b) maintenance and quality control of cell cultures (c) laboratory biosafety etc. (2) practical training (a) preparation of media and cell cultures (b) identification of polioviruses (c) determination of neutralizing antibodies to polioviruses (d) detection of viral antigen and antibody by ELISA (e) amplification of virus genome by PCR etc.
3. **QUALIFICATION OF APPLICANT** (1) presently a technical staff member of microbiology laboratory
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) National Institute of Health (Murayama Annex)

VIROLOGICAL DIAGNOSIS TECHNIQUES OF HIV INFECTION (AIDS)

Jan. 6, '97 - Feb. 23, '97, 8 participants

エイズのウィルス感染診断検査技術 J-96-03185

1. **PURPOSE** The purpose of the course is to train those who are capable of precisely diagnosing HIV infection virologically in the laboratory.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes; (1) surveillance of HIV infections (2) introduction to sophisticated technology of virus diagnosis (3) evaluation method of examination kit (4) examination method of pathogens relevant to opportunistic infections
3. **QUALIFICATION OF APPLICANT** (1) have experience of microbes examination and research, preferably more than two years (2) to be engaged in a crusade against AIDS in future
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) National Institute of Health

HIV/AIDS CONTROL PLAN

Sep. 9, '96 - Oct. 19, '96, 12 participants

HIV/AIDS対策モデル J-96-03305

1. **PURPOSE** Especially Asian region, AIDS (Acquired Immune Deficiency Syndrome) has been raging in developing countries. Since the social backgrounds of infection route and the kinds of opportunistic infection are different in these countries, it is indispensable for them to have sufficient knowledge about HIV. The purpose of this course is to provide the participants with the opportunity to study the characteristic of infection diseases in each country or region, and to acquire the ability to plan the measures of AIDS.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures and practices as follows (1) retrovirus (2) immunodeficiency (3) opportunistic infection (4) chemotherapy (5) immunity therapy (6) AIDS and vaccine (7) gene therapy (8) detection of virus antigen (9) (10) detection of antibody (11) PCR method (12) discussion (13) observation trip. There is a possibility that a seminar for officials will be held during the course.
3. **QUALIFICATION OF APPLICANT** (1) staffs who are engaged in treatment, diagnosis, and prevention against infectious diseases (2) have more than three years' experience (3) under 40 years of age (4) graduate from university or medical school (5) medical staffs who actually participate in treatment for AIDS.
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Research Institute for Microbial Diseases, Osaka University

WORKMEN'S HEALTHCARE

Sep. 9, '96 - Dec. 15, '96, 8 participants

労災医療 J-96-03190

1. **PURPOSE** The purpose of the course is to improve and enhance the system of workmen's accident medical treatment by giving training not only to doctors but to nurses to raise their capability and the standard of medical technology.
2. **MAIN FEATURES OF CURRICULUM** The programme is designed for participants to deepen the knowledge of this specific field and be able to ameliorate the standard of treatment and rehabilitation of patients as well as emergency medicine. Main subjects are as follows; (1) laws and administration (2) workmen's accident compensation administration (3) treatments and examinations (4) rehabilitation (5) emergency medicine system
3. **QUALIFICATION OF APPLICANT** medical doctor or nurse engaged in workmen's accident medical treatment
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Japan Overseas Health Administration Center (JOHAC)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training

HOSPITAL PHARMACY

Sep. 24, '96 - Nov. 22, '96, 10 participants

病院薬学 J-96-03218

1. **PURPOSE** This programme is designed for those who are presently engaged in hospital pharmacy and provides knowledge, technology and skills for practical hospital pharmacy through lectures, practice drills and observations.
2. **MAIN FEATURES OF CURRICULUM** Participants are expected to acquire knowledge and techniques such as the following, which are essential for hospital pharmacy in Japan: dispensing, pharmaceutical preparation, drug testing, drug control, clinical pharmacy, drug information and drug supply.
3. **QUALIFICATION OF APPLICANT** (1) have experience of more than five years in their profession (2) presently engaged in practices of hospital pharmacy (3) recommended by the President of the association the applicants belong to and/or the President of the institution at which they work (4) under 40 years of age (5) be pharmacists.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan International Medical Technology Foundation (3) Japanese Society of Hospital Pharmacists (4) related institutes

ORAL AND MAXILLOFACIAL RADIOLOGY

Sep. 2, '96 - Mar. 1, '97, 5 participants

口腔顎顔面放射線診断 J-96-03225

1. **PURPOSE** The course is designed for specialists or potential future specialists in oral and maxillofacial radiology presently engaged in the training of dentistry students in the medical and dental schools of higher education establishments in participating countries. Through specialist-oriented study encompassing the whole field of radiology, including practical technical training, the course seeks to provide developing countries with medical specialists and educators capable of fulfilling the role of educators of the next generation of specialists in their field.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice at laboratory experiments and introduction of Japanese experience. The main themes are: (1) oral and maxillofacial radiology, (2) radiation physics, (3) radiation biology, (4) radiation management, (5) radiation equipment engineering, (6) general image diagnostics.
3. **QUALIFICATION OF APPLICANT** (1) graduate from university-level dental or medical school (2) staff member (teaching and/or research) of a dental or medical school, or similar institution, e. g. dentist or doctor specializing in dentistry (3) have served at a university or equivalent institution for over three years (4) be at present specializing in radiology, or hereafter intending to specialize in radiology (5) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Faculty of Dentistry, Osaka University.

CONTROL OF ENDEMIC DISEASES (LABORATORY AND FIELD TECHNIQUES IN ECHINOCOCCOSIS/HYDATIDOSIS) (LATIN AMERICAN COUNTRIES)

Jan. 13, '97 - Mar. 17, '97, 5 participants

地域流行病対策(エキノコックス症試験検査技術)(中南米諸国) J-96-03234

1. **PURPOSE** This course is designed to provide opportunities to obtain basic and practical knowledge and techniques on echinococcosis to researchers and medical technicians who are engaged in this field in its prevalent areas in Latin America for the purpose of improving the situation of public health on the whole.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, laboratory experiments and field work. It mainly covers; (1) measures for echinococcosis in Hokkaido, (2) basic and applied techniques of diagnosis in the laboratory and epidemiological survey, (3) practical training in public health care centers and meat inspection centers, (4) hygiene and medical administration of regional health care
3. **QUALIFICATION OF APPLICANT** (1) be a university graduate or equivalent, (2) be presently engaged in examination or research work of echinococcosis, (3) have over two years' experience in this field, (4) be over 25 and under 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido Institute of Public Health, (2) Hokkaido International Centre, Sapporo (HICS), JICA.

TUBERCULOSIS CONTROL LABORATORY SERVICES

Aug. 5, '96 - Dec. 22, '96, 5 participants

結核対策細菌検査サービス J-96-03251

1. **PURPOSE** The purpose of the course is to educate the leaders of laboratory works on training methods and to promote nationwide tuberculosis control programmes in participating countries.
2. **MAIN FEATURES OF CURRICULUM** In this training course, the emphasis is placed on the management and evaluation of TB laboratory system, importance of bacteriological examination such as case-finding in tuberculosis control programmes, how to examine staining method of mycobacteria, the way to isolate culture from specimens of tuberculosis patients, the sensitivity test for anti-tuberculosis drugs, the identification of mycobacterium tuberculosis from other mycobacteria, etc.
3. **QUALIFICATION OF APPLICANT** (1) a senior technician or a medical doctor responsible for the management of laboratory works in TB control programme in the region/country and the training of health personnel in laboratory works for tuberculosis control (2) not more than 50 and not less than 26 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association
5. **REMARKS** Those whose tuberculin test is negative are advised to get BCG vaccination before departure from their countries.

NATIONAL TUBERCULOSIS PROGRAMME MANAGEMENT

May 6, '96 - Jun. 23, '96, 10 participants

国家結核プログラム管理 J-96-03282

1. **PURPOSE** The purpose of this course is to enhance the ability of the participants to manage a national tuberculosis programme, to set up a strategy for implementation and improvement of the programme and to evaluate the programme through lectures, discussions and observation tours, and also by exchange of experiences and views with the participants from other countries, to contribute to the strengthening of the programmes of the countries concerned.
2. **MAIN FEATURES OF CURRICULUM** This course aims at enhancing the abilities to: (1) make a management plan for the programme based on the deficiencies and shortcomings as identified by evaluation (2) evaluate the on-going national tuberculosis programme in their own country (3) assess the epidemiological status of tuberculosis and its time trend in their countries (4) incorporate new knowledge and technology of tuberculosis control into their national programme.
3. **QUALIFICATION OF APPLICANT** (1) a medical officer who is in charge of a tuberculosis control programme at a certain administrative level, preferably an ex-participant of the Group Training Course in "Tuberculosis Control" with about five years field experience after participating in the course (2) not more than 55 and not less than 35 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association
5. **REMARKS** The participants will be required to take examinations for the qualification of Diploma of Tuberculosis Control and Epidemiology from the Research Institute of Tuberculosis when the training is completed. The participants should bring updated information on the health status and tuberculosis activities, manual of national tuberculosis control programme, recording form of tuberculosis patients, etc. of their countries.

MEDICAL TECHNOLOGY ON RADIOLOGY

Aug. 26, '97 - Dec. 15, '97, 5 participants

医療放射線技術者実務 J-96-03258

1. **PURPOSE** This course is designed for radiological technologist to obtain basic knowledge of radiology and advanced knowledge and techniques that can meet the requirements of advanced medical equipment.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes. (1) lectures (a) osteological dissection and photographing techniques (b) dissection of respiratory organs and photographing techniques (c) dissection of digestive organs and photographing techniques (d) radiological facilities and their management (e) image diagnosis by CT and MRI and testing methods (f) blood vessel contrast test and image processing (DSA and CINE) methods (g) principles of PACS and FCR and their practice (h) roles and image quality evaluation of X-ray film and intensifying paper (i) protection against radioactive rays and safety management (j) ultrasonic diagnosis and testing methods (k) nuclear medicine testing method (2) clinical training and experimentation and practice (a) each part to be photographed and testing method (b) various photographing devices and testing method (c) image diagnosis using actual clinical cases (d) image quality evaluation and data processing (e) maintenance and management of automatic developing device (f) analog and digital image processing (3) specialized training (a) MRI training course (b) CT training course (c) AG and TV training course
3. **QUALIFICATION OF APPLICANT** (1) certified radiological technologist (2) presently engaged in practices of radiography with more than five years of experience (3) be not more than 40 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Medical University
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for four weeks.

DRUG ABUSE PREVENTION ACTIVITIES (ASIAN COUNTRIES)

Oct. 14, '96 - Nov. 17, '96, 8 participants

薬物乱用防止啓発活動(アジア諸国) J-96-03255

1. **PURPOSE** The purpose of this course is to contribute to improvement of measures against drug abuse in the Asian region by introducing to the participants the recent development of drug abuse prevention activities in Japan.
2. **MAIN FEATURES OF CURRICULUM** This course includes the following topics (1) lectures (a) outline of drug abuse prevention activities in Japan (b) collaboration between government administration and NGOs (c) training of personnel engaged in the activities (d) medical and sociological study on drug abuse (e) international cooperation (2) observation (a) facilities for drug dependents (b) prevention activities in local autonomies (3) comparative study (group discussion)
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) official of central or local government engaged in the said field or leader of NGOs (3) working experience of more than 5 years (4) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Ministry of Health and Welfare (3) Drug Abuse Prevention Center

CLINICAL NURSING ON MATERNAL, CHILD AND CARDIAC SURGERY

Aug. 12, '96 - Dec. 15, '96, 5 participants

臨床看護実務(母子・心臓外科) J-96-03259

1. **PURPOSE** The purpose of this course is to provide participants with comprehensive knowledge and technique on clinical nursing, particularly maternal and child and cardiac surgery nursing through lectures, practices and observations with a view on contribution to the improvement of clinical and practical nursing techniques.
2. **MAIN FEATURES OF CURRICULUM** This course mainly covers the following themes. (1) maternal and child nursing (2) cardiac surgery nursing (3) emergency nursing (4) manipulation of medical equipment and instruments (5) understanding role of clinical nursing. The included lectures are mainly on pathophysiology and midwifery.
3. **QUALIFICATION OF APPLICANT** (1) certified staff nurse with more than five years nursing experience including clinical nursing (2) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Medical University
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks.

MATERNAL AND CHILD HEALTH (LAOS, VIETNAM, CAMBODIA)

Feb. 17, '97 - Apr. 26, '97, 9 participants

母子保健看護(インドシナ諸国) J-96-03306

1. **PURPOSE** The purpose of this course is to provide the participants with basic knowledge and clinical technique focusing on "Re-Education" related to maternal and child health nursing and thereby to contribute to train prospective nurses or nurses in the hospitals with the acquired techniques in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in this course; (1) safe water supply (2) excretion treatment (3) vaccination (4) family planning service (5) educational guidance to the pregnant (6) nutrition improvement (7) abnormal delivery (8) neonatal nursing
3. **QUALIFICATION OF APPLICANT** (1) nurse (2) have more than five years' and less than fifteen years' experience (3) between 25 and 40 years of age (4) presently, engaged in instruction for nurses, midwives, or head nurse class
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) International Nursing Foundation of Japan

HOSPITAL MANAGEMENT

Jan. 13, '97 - Mar. 22, '97, 5 participants

病院経営・財務管理 J-96-03264

1. **PURPOSE** The purpose of the course is to provide participants with the concepts and practical know-how of hospital management. The knowledge obtained through this course will help them to strengthen the financial standing of the hospitals for which they work.
2. **MAIN FEATURES OF CURRICULUM** The training course consists of four main parts, namely, (1) lectures on hospital management (2) field trips (3) presentation, (4) financial data management with computers. The following major subjects for hospital management are covered in the course: (1) outline of hospital management (2) outline of financial management (3) book keeping (4) slip system (5) purchase planning (6) cost accounting (7) financial report (8) accounting system (9) financial management with computer (10) planning of hospital operation management
3. **QUALIFICATION OF APPLICANT** (1) university graduate with more than 5 years of professional experience in the field of financial management (2) presently engaged in the field of hospital financial management (3) 45 years of age or less
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) St. Mary's Hospital

SPECIAL TRAINING COURSE FOR WOMEN IN NUTRITION AND DIET IMPROVEMENT

Dec. 9, '96 - Feb. 28, '97, 8 participants

女性指導者のための食物改善 J-96-03299

1. **PURPOSE** This course is designed for people who work at medical/insurance/health and hygiene institutions, food-providing facilities or educational institutions in developing countries. The purpose of this course is to provide knowledge on dietary habits through lectures on food nutrition and practice of looking, and thereby to improve lifestyles and living environments, dietary habits.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; (1) theories on food and culture, food and environment; (2) human physiology and biochemistry, food science; (3) dietetics; (4) food preparation and management of food-providing, food product hygiene and public hygiene, food processing, food storage
3. **QUALIFICATION OF APPLICANT** (1) engaged in nutritional or hygiene instruction or other work related to improvement of dietary habits, have more than two years' experience, (2) graduate from high school or equivalent, (3) female under 45 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Obihiro (HICS), JICA (2) City of Obihiro, (3) Otani Junior College
5. **REMARKS** A Compulsory intensive Japanese course will be conducted prior to the Technical Training for three weeks (75 hours).

FOOD SANITATION ADMINISTRATION

Jan. 20, '97 - Mar. 16, '97, 9 participants

食品保健行政 J-96-03292

1. **PURPOSE** The purpose of this course is to provide them with knowledge of comprehensive and integrated food sanitation, and thereby to improve and promote the standard of sanitation in the country and public health measures all the may from production to consumption.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, exercises, and observations aiming at effective technical guidance from the viewpoint of both theory and practice. (1) an introduction to food sanitation, (2) an introduction to food science, (3) an introduction to food industry, (4) dietetics, sitology, and nutritional guidance, (5) health management
3. **QUALIFICATION OF APPLICANT** (1) a technical official or research worker with more than 5 years of practical experience, who is presently in charge of agriculture and rural developments, (2) between 30 and 35 years of age.
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Health and Sanitation Bureau, City of Sapporo

INSTRUCTORS TRAINING OF ESOPHAGEAL VOCALIZATON (ASIAN COUNTRIES)

Jan. 7, '97 - Mar. 16, '97, 6 participants

喉摘者発声指導者養成(アジア諸国) J-96-03219

1. **PURPOSE** The purpose of this course is to have participants master the esophageal vocalization method and its instruction method, and consequently to contribute to the promotion of rehabilitation of laryngectomees in their respective countries and their reorientation into society.
2. **MAIN FEATURES OF CURRICULUM** The curriculum consists of step-by-step training of the esophageal vocalization method and lectures upon instruction theory.
3. **QUALIFICATION OF APPLICANT** (1) laryngectomee, whose larynx has been removed due to laryngeal cancer, etc., (2) currently or expected to be engaged in rehabilitation of laryngectomees, (3) person who finished at least secondary education, (4) under 55 years of age.
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) The Guinrei-Kai Inc. Association

LEADERSHIP TRAINING OF ASIAN AND OCEANIAN DEAF PERSONS

Sep. 23, '96 - Oct. 31, '96, 8 participants

聾者のための指導者(アジア・大洋州諸国) J-96-03253

1. **PURPOSE** The purpose of this course is to provide practical knowledge and information on social welfare and rehabilitation technique in Japan, in order to contribute to deaf persons who are in severe social and economic situations in participating Asian and Oceanian countries, to be independent and participatory in the society.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) training of communication technique (2) local training (3) participation in the national physically handicapped sports festival
3. **QUALIFICATION OF APPLICANT** (1) leaders of deaf persons (2) have more than 3 years' experience (3) under 35 years of age (4) person who can understand English sign language and/or international sign language
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA, (2) Japanese Federation of the Deaf

ASSISTIVE TECHNOLOGY FOR VISUALLY DISABLED PERSONS (ASIAN AND OCEANIAN COUNTRIES)

Jan. 21, '97 - Mar. 16, '97, 8 participants

視覚障害者用支援技術(アジア・大洋州諸国)　J-96-03254

1. **PURPOSE** The purpose of this course is to introduce the participants to recent development of the technology in Japan so that they may be able to define appropriate technology for their respective countries.
2. **MAIN FEATURES OF CURRICULUM** (1) systems for low vision persons, including TV, video etc., (2) raised graphics for teaching materials by use of three dimensional photo copying (3) translation of documents into Braille by use of image scanners (4) how to increase opportunity for education and employment taking advantage of information processing ability by use of voice synthesizer and Braille display
3. **QUALIFICATION OF APPLICANT** (1) those engaged in education and/or rehabilitation of visually disabled persons (2) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Ministry of Health and Welfare (3) Japan Vocational Development Center for the Blind

SEMINAR FOR SENIOR OFFICERS OF NATIONAL MACHINERIES FOR THE ADVANCEMENT OF WOMEN

Nov. 5, '96 - Nov. 28, '96, 16 participants

女性問題国内本部機構上級担当官セミナー　J-96-03181

1. **PURPOSE** The purpose of the seminar can be summarized as follows: (1) to study functions and institutional location of the national machinery for the advancement of women in Japan, (2) to exchange views and information on functions, activities and effectiveness of national machineries in participating countries, (3) to improve knowledge required for establishing or improving national machineries and promoting their activities, and (4) to improve knowledge required for formulating a national plan of action on women.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, a special theme regarding women's issues is selected as a specific subject each year. The seminar covers the following: (1) national machinery for the advancement of women of Japan (a) role of the national machinery (b) formulation and implementation of national plan of action (c) status of women and major women's issues in Japan (2) promotion of "women in development" (WID) (a) concept of WID (b) Japan's Official Development Assistance (ODA) focusing on WID (3) Country Report. roles of national machineries and WID issues (identification of various problems and measures for the advancement of women) in each participating country
3. **QUALIFICATION OF APPLICANT** (1) senior officer in charge of national machinery on women's issues (2) university graduate or equivalent (3) have more than five years of occupational experience
4. **TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Office for Women's Affairs, Prime Minister's Office

SEMINAR ON IMPROVEMENT OF THE STATUS OF WOMEN FOR GOVERNMENT OFFICERS

June 24, '96 - July 25, '96, 8 participants

女性の地位向上のための行政官セミナー　J-96-03136

1. **PURPOSE** The purpose of this seminar is to foster government officers capable of promoting comprehensive women's welfare activities based on the principle of "Women in Development", for the purpose of improving the status of women in participating countries.
2. **MAIN FEATURES OF CURRICULUM** Participants will be able to upgrade their knowledge and capabilities necessary for the management of women's affairs through lectures, discussions and observation. The main themes in the course are: (1) administration and administrative planning of policies for women's affairs (2) policies and administration for women workers (3) nursery system and social welfare policies (4) school education and women's education (5) women in development (6) public health care (7) women and the environment (8) living environment control (9) policies for the advancement of women in farms and the improvement of their living standards
3. **QUALIFICATION OF APPLICANT** (1) government officer currently in a post of planning policies for improving the status of women
4. **TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu Forum on Asian Women

SEMINAR ON INDUSTRIAL SAFETY AND HEALTH

Oct. 24, '96 - Dec. 5, '96, 18 participants

労働安全衛生セミナー　J-96-03206

1. **PURPOSE** The purposes of the seminar are: (1) to contribute to the upgrading of industrial safety and health standards in participating countries through the introduction of the present condition of industrial safety and health administration of the government, as well as that of the relevant activities of the private sector in Japan, (2) to promote mutual understanding and cooperative activities through the exchange of information and opinions on actual situations of industrial safety and health, and related issues in participating countries.
2. **MAIN FEATURES OF CURRICULUM** This seminar consists of common subjects for all participants and specialized subjects, for which participants will be divided into the following two groups according to their speciality. (1) safety (safety on electric shock, fire and explosion, boiler, crane, conveyer, in construction industry, etc.) (2) health (measures for pneumoconiosis, anoxia, back pain, impairment by organic solvent, chemical substances, radiation, heat, noise, vibration, VDT operation, etc.)
3. **QUALIFICATION OF APPLICANT** (1) governmental official (division head, or section chief) engaged in planning and administration in industrial safety and health, or staff at governmental relevant organizations promoting and guiding the prevention of industrial accidents (2) university/college graduate or equivalent (3) person with experience of five years or more in the field of industrial safety and health or labor standards inspection (4) between 30 and 45 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Labour Standards Bureau, Ministry of Labour (3) Japan Industrial Safety and Health Association (JISHA)

WORKING ENVIRONMENT IMPROVEMENT TECHNOLOGY

Jan. 13, '97 - Mar. 9, '97, 10 participants

作業環境改善技術 J-96-03302

1. **PURPOSE** The purpose of this course is to make participants understand the practical knowledge and comprehensive information on hygiene technology measures for control of emission of toxic factors such as gas, steam, and dust in workplace. And thereby to contribute to improvement of standard in the field of industrial hygiene technology and environmental improvement in neighboring regions.
2. **MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course; **(1)** evaluation methods of working environment (understanding of toxicity of dust and organic chemical substances) **(2)** hygiene technology methods for environmental improvement (devices for dust proofing, sound proofing, sectional exhaust and etc.) **(3)** case studies on improvement **(4)** observation trip
3. **QUALIFICATION OF APPLICANT** **(1)** technical officials who are engaged in the field of industrial health or staffs at safety health association who are engaged in improvement control of working environment **(2)** have more than five years' experience **(3)** between 20 and 40 years of age
4. **TRAINING INSTITUTIONS** **(1)** Osaka International Centre (OSIC), JICA **(2)** Osaka Occupational Health Service Center

SEMINAR ON INTRODUCTION TO JAPAN DISASTER RELIEF ACTIVITIES AND DISASTER PREVENTION SYSTEM (Asian and Oceanian Countries)

Nov. 25, '96 - Dec. 15, '96, 7 participants

国際緊急援助隊及び防災体制紹介セミナー(アジア・大洋州) J-96-03275

1. **PURPOSE** Japan has developed scientific technology and investigation skills with which we can cope with prospective disasters. It has also accumulated knowledge of disaster prevention and arranged the disaster prevention system. This seminar is designed to provide practical workers (manager level) in developing countries with knowledge and understanding about Japan Disaster Relief Activities, to contribute to smooth implementation of these activities and to improve disaster prevention system in respective countries.
2. **MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: **(1)** introduction of the system, organizational structure, procedure of application for disaster relief activities conducted by JICA **(2)** disaster/prevention measures implemented in Japan **(3)** regional disaster prevention system **(4)** observation of relief training at the Police, Fire station, etc. **(5)** emergency medicine in Japan
3. **QUALIFICATION OF APPLICANT** Practical workers (manager level) in organizations in charge of application for emergency assistance.
4. **TRAINING INSTITUTIONS** Osaka International Centre (OSIC), JICA

JICA