



17.Environmental Management

Domestic Waste Water Treatment Techniques 生活排水対策		GROUP  0880006 Environmental Management—Water Pollution 10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
The objective of this program is to make feasible action plans to solve or improve wastewater problems for which the participant is responsible through learning about Japanese wastewater treatment techniques and policies. To reach the objective, participants are expected to achieve the following: (1) To understand waste water treatment management in Japan and in regional governments, and understand the problems in own country (2) To acquire a basic understanding of the knowledge and technologies related to waste water treatment systems for sewerage and others, and be able to evaluate technologies that can be applied in your own country (3) To learn methods for measuring the degree of environmental pollution and methods for managing pollution, and be able to explain them (4) To comprehend the ideal form of effective waste water treatment technologies in terms of water resource and river pollution treatment policies from the point of view of water recycling and the water cycle (5) To propose sewerage management plans	[Target Organizations] Central/local government [Target Group] Technical administrators in the field of domestic wastewater treatment in central or local governments	
CONTENTS	PROGRAM PERIOD	Aug.27.2008~Dec.8.2008
All topics consist of lectures, practice, and exercises (1) Introduction to municipal administration, Introduction to water quality preservation (2) Wastewater treatment technique, Treatment technique for human waste, Low-cost septic tank technology, Solid waste management (3) Monitoring method for toxic chemicals, Leachate treatment technique (4) Administration for water quality, Monitoring method for water pollution, Recycling technology of polluted mud (5) Job report, Action plan, Project cycle management	IMPLEMENTING PARTNER	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2005~2009
	REMARKS	1) A problem analysis sheet is used to help identify the participants' problems in their countries. 2) The curriculum focuses on low-cost domestic wastewater treatment methods such as septic tanks.


Environmental Administration with Community Participation 住民との協働による環境都市づくり		GROUP  0880007 Environmental Management—Water Pollution 8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
This program is designed to enable participants to improve their abilities to prevent environmental pollution undergoing rapid industrialization through lessons learned from Minamata's experience, and to utilize know-how of mobilizing local communities in the environmental conservation policies of participants' countries. 1) Through understanding what Japan and Minamata City have experienced, be able to understand the seriousness of pollution damage and the difficulty of restoring the natural environment. 2) Through observation of Minamata City activities, understand the specific arrangements of the creation of a recycling-oriented society in Japan that involves the residents, the private companies, local governments and the state. 3) Understand the arrangements of environmental education conducted in concert with local residents. 4) Propose a basic strategy for environmental improving activities with community participants in your own country.	(1) Program officers at central or local government engaged in environmental policy-making (2) NGO personnel working on environmental conservation * Participants are expected to have experience or a strong interest in formulating and implementing projects based on community participation	
CONTENTS	PROGRAM PERIOD	Oct.1.2008~Nov.17.2008
The program consists of lectures, practical exercises, discussions, observation and communication with local residents, covering the following themes: (1) Causes of "Minamata Disease" and its mechanism, Physical and mental injury by Minamata disease and its deleterious effects on local communities (2) Environmental policies and administration of the nation, prefecture and Minamata disease (3) Efforts made by Minamata City government and local residents toward environmental conservation (classification of wastes, activities relating to ISO14001), Communication with patients of Minamata disease, their families and citizens (4) Job report, Action Plan	IMPLEMENTING PARTNER	MINAMATA CITY GOVERNMENT
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2005~2009
	REMARKS	Participation of countries which face the hazard of environmental pollution is preferable. At least 2 candidates are required per country.


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>The purpose of the training course is to enhance the ability of policymaking especially for environmental policy or regulations based on the environmental monitoring data. For this purpose, we set up 4 objectives:</p> <p>(1) To understand the meanings of the environmental indicators (2) To acquire the ability to formulate the environmental standards based on the environmental monitoring data (3) To acquire the ability to formulate the environmental regulations based on the environmental monitoring data (4) To acquire the ability to plan countermeasures against pollution based on the environmental regulations</p>	<p>【Target Organizations】 Policy making sections about environmental issues in central / local governments</p> <p>【Target Group】 Policymakers of the environmental policies or regulations</p>	
CONTENTS	PROGRAM PERIOD	Jan.14.2009～Feb.2.2009
<p>1) Meaning of environmental indicator (BOD, COD, NOx, SOx, etc.) 2) Environmental monitoring method 3) Formulating the environmental standards based on the environmental monitoring data in participating countries 4) Formulating the environmental standards</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2007～2009
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>This course is designed for technical officials in developing countries, who are in charge of solid waste management in national/local government to enhance their capabilities for effective and proper planning and implementation of solid waste management.</p> <p>1)to clarify the issues and causes of solid waste management in their respective countries. 2)to understand the present system and the historical process of environmental policy and solid waste management in Japan 3)to understand the techniques and measures used in each process of solid waste management (collection and transportation, intermediate treatment, final disposal) in Japan 4)to understand the importance and concrete methods of environmental education/awareness for solid waste management 5)to understand the role and concrete methods of environmental management such as EIA in solid waste management</p>	<p>Department which deals with solid waste management in national/local government</p>	
CONTENTS	PROGRAM PERIOD	Dec.1.2008～Feb.20.2009
<p>1)Issue Analysis Workshop 2)Outline of environmental Preservation Administration, Industrial Waste Administration etc. 3)Landfill Disposal Technique, Promotion of 3R, collection and transportation etc. 4)Basic Policy for Environmental Education, Practice in Environmental Education etc. 5)Environmental Impact Assessment, etc.</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008～2010
	REMARKS	

Integrated Solid Waste Management for Central and Local Government Officers 行政官のための固形廃棄物総合管理		GROUP	0880102
		Environmental Management—Environmental Administration	
		9 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】Strengthening of capacity on effective SWM system planning through the integrated technologies in the said field, by government officers practically in charge. The said targeting groups shall be encouraged to grow the mind for local development and environmental conservation as well. 【Outputs】(1) 1) Issue Analysis Workshop/To clarify the issues and causes of solid waste management in their countries./ (2) 2) Industrial Waste Administration/To understand the present system and the characteristics of SWM administration to compare with their own and to extract hints for improvement. / (3) 3) To understand the techniques used in each process of solid waste management (collection and transportation, intermediate treatment and final disposal) in Japan/ (4) 4) To understand the concrete methods of environmental education/awareness for solid waste management/ (5) 5) To understand the concrete methods of autonomous Environmental Management System (EMS) to achieve adequate solid waste management</p>	<p>【Target Organizations】 Department which deals with solid waste management in national/local government or related organizations. 【Target Group】 National or local governmental officers for Integrated Solid Waste Management with more than five (5) years of practical experience in the field of Waste Management. Being university graduates or have the equivalent academic background. Being proficient in speaking and writing English</p>		
CONTENTS	PROGRAM PERIOD	Jan.13.2009～Feb.28.2009	
<p>(1) Country&Job report/Problem Analysis /Awareness raising for local development and environmental conservation, Prediction of urbanization /Goal setting for each one's country or region (2) Laws and regulations on Waste management in Japan/Waste administration at central/local government and Waste separation/3R policy, accuracy of waste separation, recognition as a "resource"/Environmental Impact Assessment on Installation of disposal site (3) Technologies for collection and transportation /Waste treatment technology /Accompanied effluent gas and discharged water treatment technology, detoxifying technology for hazardous substances and residues/Concepts on Eco-Town and recycling business/Planning of waste treatment technologies appropriate for each country (4) Environmental awareness raising activities, methods taken by Government, schools and private sectors, for the purpose of environmental protection promotion (5) ISO 14001/Step-by-step approach of goal setting, implementation, review by abridged and local version of EMS</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2008～2008	
	REMARKS		


Workshop on Administration of Environmental and Social Consideration Process for Implementation of a Japanese ODA Loan Project 円借款事業における環境社会配慮実務		GROUP	0880106
		Environmental Management—Other Environmental Management Issues	
Target Countries: Countries which have an on-going or a proposed Japanese ODA Loan Project		18 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】 The participants are expected to work for qualitative improvement of the EIA in their countries and to implement the environmental and social considerations required to Japanese ODA Loan. 【Outputs】 (1) To be able to explain necessity of adequate environmental and social considerations referring to lessons from experience of ODA projects (2) To be able to explain outline of guidelines of environmental and social considerations required for a Japan's ODA loan project (3) To understand the fundamental ideas of EIA and to be able to explain their proper procedure of environmental and social consideration and technical points for their implementation. (4) To identify the issues and measures to promote proper EIA in their countries</p>	<p>【Target Organizations】 (1) Implementation body of a Japan's ODA Loan Project (or a proposed project), which requires environmental and social consideration in accordance and (2) the implementation body of the EIA</p>		
CONTENTS	PROGRAM PERIOD	May.18.2008～May.31.2008	
<p>(1) - Lecture & Discussion: Experience of environmental and social consideration for ODA projects and its lessons -Lecture: lessons and learns of large scale development project in Japan -Lecture: Project economic analysis of a project and environmental and social consideration (2) - Lecture: Environment and Social Consideration of JBIC and JICA (3) -Lecture: Overviews of EIA -Lecture: Social Environmental Assessment - Lecture: - Group work: EIA Process (Screening, Scoping, Mitigation, Public Hearing & Transparency /Accountability, Monitoring & Follow-up) (4) -Presentation: Country Report, Case Study -Lecture: Environmental Assessment law in Japan(Comparative study) -Report writing: on findings through the program</p>	IMPLEMENTING PARTNER	Japan Bank for International Cooperation	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2008～2010	
	REMARKS		


Waste Management and 3Rs (Reduce, Reuse, Recycle) Policy 廃棄物3R・再資源化		GROUP 	0880121
		Environmental Management—Urban Solid Wastes	
		7 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The purpose of this program is to give the participants an overall knowledge of technologies for industrial waste management and recycling, present trends of legislation and policies in the field of industrial waste management & recycling, skills to develop and implement recycling plans for industrial waste, and an overall information on the facilities and equipment concerned.	(1) Technical university graduates or holders of equivalent technical knowledge & professional experience (2) Technical officials in the central or local government with more than 5 years of practical experience in the field of industrial waste management and recycling (3) 30-45 years old		
CONTENTS	PROGRAM PERIOD	Jan.9.2009~Feb.18.2009	
(1) Present status of industrial waste management & recycling in Japan (2) Related legislation and strategies established in Japan (3) Implementation of countermeasures towards the creation of recycle-oriented society (standardization by ISO / green purchasing / product assessment (including LCA) / 3R-oriented design (Design for Environment)) (4) Present status of recycling by products in Japan (packagings & containers / home electrical appliances / foods / construction materials / end-of-life vehicles) (5) Development of environmental key technology (pre-treatment (collection, dismantling, crushing, sorting, dehydration & drying) / incineration, vitrification (melting) & solidification / pyrolysis / bio-treatment / energy-utilization)	IMPLEMENTING PARTNER	CLEAN JAPAN CENTER	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	1990~2008	
	REMARKS	This program is conducted biennially and planned to be held in Fiscal years 2004, 2006 and 2008.	

Pollution Control for Hazardous Substances in the Environment 環境中の有害汚染物質対策		GROUP 	0880224
		Environmental Management—Other Environmental Management Issues	
		5 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
This course is designed for participants to acquire the abilities to evaluate from emission sources on the environment pollution control, and formulate measures to prevent pollution due to hazardous substances through the following outputs: (1) Understand recent conditions and history of pollution caused by hazardous substances, including Minamata disease, etc. caused by metal containments (2) Understand the effects on human health resulting from metal contaminants and other hazardous substances (3) Understand local government's pollution controls for hazardous substances such as environmental assessment and systems based on laws and ordinances (4) Understand analytical techniques and methods of environmental monitoring implemented by local government so as to obtain a grasp of current status of environment (5) Understand methods of surveying to obtain a grasp of sources of environmental pollution due of metal contaminants	(1) University graduates with a chemistry background, or the equivalent aptitude and knowledge (2) Key administrative engineers (not including researcher) in the environmental field with at least 5 years of experience (3) Between 30 - 40 years of age		
CONTENTS	PROGRAM PERIOD	Jun.2.2008~Aug.9.2008	
Step1 <Know the background to hazardous pollutant countermeasures> 1-1 Overview of Pollution Due to Hazardous Substances (Lecture) 1-2 Health Impacts, etc., of Hazardous Substances (Lecture) Step2 <Acquire basic information relating to hazardous pollutant countermeasures> 2-1 Environmental Measures by Local Government (Lecture) 2-2 Environmental Monitoring (Lecture/Practice) Step3 <Learn concrete methods relating to hazardous pollutant countermeasures> 3-1 Studies Trace Pollution Sources 3-2 3R Promotion Techniques (Lecture/Observation) 3-3 Pollution Control Technologies (Facility Tour) Step4 <Acquire solutions from specialists for accomplishment of tasks in the home country> Step5 <Action Plan Presentation and Verification of Manifested Effects of Training> Follow-up by JICA-GEC Network	IMPLEMENTING PARTNER	OSAKA PREFECTURAL GOVERNMENT, DEP. OF ENVIRON.&Agri.	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2006~2010	
	REMARKS	Participants are required to bring some photos, slides, or data of examples of hazardous substances pollution.	

Comprehensive Waste Management Technique 廃棄物管理総合技術		GROUP	0880226
		Environmental Management—Urban Solid Wastes Environmental Management—Industrial Solid Wastes 9 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants will acquire comprehensive knowledge and skills on solid waste management to enhance their capabilities for effective and proper planning and implementation of solid waste management. (1)to clarify the issues and causes of solid waste management in their respective countries. (2)to understand the present system and the historical process of environmental policy and solid waste management in Japan. (3)to understand the techniques and measures used in each process of solid waste management (collection and transportation, intermediate treatment, final disposal) in Japan (4)to understand the importance and concrete methods of environmental education/awareness for solid waste management (5)to understand the role and concrete methods of environmental management such as EIA in solid waste management	【Target Organization】 Departments in charge of solid waste management in national/local government or governmental organizations 【Target Group】 (1) Technical staff in charge of solid waste management at national/local government or governmental organization (2) More than three (3) years of work experience in the field of solid waste management (3) University degree or equivalent (4) Sufficient command of written and spoken English (5) Under forty (40) years of age in principle		
CONTENTS	PROGRAM PERIOD	May.13.2008~Aug.10.2008	
* This program deals with general, industrial and medical wastes. (1)Issue analysis workshop: Analysis of participants' countries (2)Country report presentation: Sharing the results (3)Waste management policy: Environmental policy and administrative system of waste management in Japan (4)Landfill disposal technique: Sanitary landfill technique "Fukuoka Method", etc. (5)Collection and Transportation: Time and motion, etc. (6)Waste treatment technique: Recycling, hazardous waste treatment, etc. (7)Environmental education and awareness: Role and concrete methods of environmental education taken by various actors (national/local government, schools, NGOs/citizens' groups and media) (8)Environmental management: Concept, methods and concrete examples of EIA, etc. (9)Feedback session: Review of each unit of the training (10)Final report presentation: Considering an action plan for improving waste management in participants' countries	IMPLEMENTING PARTNER	Environment Department, Hiroshima Prefectural Government	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2006~2010	
	REMARKS		


Research on Environment Technology 環境調和技術		GROUP	0880729
		Environmental Management—Other Environmental Management Issues 4 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
[Objective] - The objective of this program is to master appropriate technologies and skills, and to develop leading researchers in the field of environmental technology. To reach the objective, participants are expected to achieve the following: 1) To master methods to carry out research activities by themselves 2) To deepen knowledge on environmental technology 3) To build a broad network with other researchers 4) To make a presentation at an academic conference 5) To make a final report based on results of the research activities in Japan 6) To make a draft paper on how the research subject will be evolved in their respective organizations and will contribute for solving the issue in the field of environmental technology in their countries.	[Target Organizations] Public research institutes, universities [Target Group] (1) Researchers in the field of environmental technology (2) Individuals with Masters degree or equivalent (3) Individuals with at least 3 years of research experience		
CONTENTS	PROGRAM PERIOD	Jul.15.2008~Feb.28.2009	
Preparatory phase: - Participants are requested to make their own research proposals according to the topic of the research subject determined before their coming to Japan. In this process it is essential to contact the host researchers and to have consultations. Program in Japan: - Introductory lectures in AIST (1.5 weeks) 1) Introductory lectures 2) Observation tour of the research institutes in Tsukuba Science city - Individual research (about 7 months): Development phase: - The draft paper will be shared with the respective organizations of the participants. Six months after the end of the program in Japan, the participants will report the progress of their activities in their organizations to Japan.	IMPLEMENTING PARTNER	National Institute of Advanced Industrial Science	
	JICA CENTER	JICA Tsukuba	
	COOPERATION PERIOD	2007~2009	
REMARKS	- The program includes intensive Japanese language lessons (25 hours). - Related website: National Institute of Advanced Industrial Science and Technology http://www.aist.go.jp/index_en.html		


Air Quality Management Policy 大気保全政策		GROUP 	0880864
Target Countries : Asia, Central and South America, Middle East, Europe		5 participants /	English
Environmental Management—Air Pollution/Acid Rain			
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>The purpose of this program is to contribute to the improvement of the air pollution control policy in the participating countries from technical and socioeconomic viewpoints. It is intended to share the Japanese specific experience on air pollution control policy with the participants and enhance frank discussions among them.</p> <p>Participants are expected to achieve the following results, i.e. to be able to make an air pollution countermeasure plan by taking leadership in the relevant fields at the national or the local governments through such items as:</p> <ol style="list-style-type: none"> 1. To understand the whole system of air quality management, 2. To understand the technical aspects of air pollution countermeasures (stationary and mobile source), and air quality monitoring methods, 3. To exchange opinions of the current status of air quality and countermeasures in each country, and 4. To make an action plan for solutions of air pollution control problems. 	<p>Technical officials directly responsible for air pollution control administration, especially in a position to participate in the planning and deciding at either central or local governmental organizations with more than 3 years of experience</p>		
CONTENTS	PROGRAM PERIOD	Jan.16.2009~Mar.4.2009	
<ol style="list-style-type: none"> 1. ① Outline of air pollution issues, ② History of Japan's countermeasures against air pollution, ③ Air pollution control administration, ④ Countermeasures against stationary sources, ⑤ Environmental quality standard and health effects, ⑥ Countermeasures against hazardous air pollutants, ⑦ Countermeasures against dioxin ⑧ VOC countermeasures ⑨ Air pollution control administration by local governments, ⑩ Offensive odor control, etc. 2. ① Diffusion of pollutants in the atmosphere, ② Photochemical air pollution, ③ Air pollution control technology and energy issues, ④ Air pollution control technology and energy issue, ⑤ Global atmospheric environmental problem, ⑥ techniques for the measurement of air pollution and sampling, ⑦ Malodor measuring methodology, ⑧ Environmental impact assessment and information processing, ⑨ Analysis technology, present situation 3. Country report presentation and discussion, 4. Preparation and presentation of an action plan 	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2004~2008	
	REMARKS		


Facility Maintenance Management for Productivity Improvement and Cleaner Production 生産性向上とクリーナープロダクションのための設備安全管理		GROUP 	0880885
Environmental Management—Cleaner Production		6 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>The objectives of this program are (1) To train maintenance managers and engineers to maximize the capability of facilities and to eliminate facility problems (environmental pollution, wasted energy/resources, etc.) for cleaner production, and (2) To establish a framework for optimizing equipment management and maintenance, and to contribute to economic development and improvement of the global environment through achieving sustainable cleaner production (CP). To reach the objective, participants are expected to achieve the following:</p> <ol style="list-style-type: none"> 1) To consider the roles and issues of equipment maintenance and management 2) To learn the transition of maintenance management methods (e.g. activation method in maintenance sites) 3) To learn improvement measures and procedures in maintenance service 4) To learn about computer systems for maintenance management and advanced maintenance technology 5) To improve the method and ability to respond to accidents and disasters in the maintenance site 	<p>[Target Organizations] Equipment management/maintenance department</p> <p>[Target Group] 1) At least 3 years of practical experience in maintenance works 2) Manager or higher in plant maintenance work 3) University graduate of engineering or equivalent</p>		
CONTENTS	PROGRAM PERIOD	Jan.7.2009~Apr.27.2009	
<p>All topics include lectures, practice, and site visits.</p> <ol style="list-style-type: none"> 1) Global environment issues and CP, Management method for maintenance site (e.g. PDCA cycle) and enhancing safety/disaster handling capabilities 2) Transition and issues of equipment and maintenance management (e.g. time based management, risk based management) 3) Equipment maintenance service (e.g. cost management, resource management) and methods for improving it, Equipment diagnosis techniques (e.g. vibration diagnosis, nondestructive inspection, insulation diagnosis) 4) Computer system for equipment maintenance and data administration, Education and training methods for passing on basic maintenance skills, Maintenance techniques for major equipment (e.g. hydraulic power units) and repair techniques for machine products 5) Life cycle costing and plant engineering 	IMPLEMENTING PARTNER	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2004~2008	
	REMARKS	<p>This program covers not only maintenance management but also management techniques for activating the organization thorough the experience of Japanese manufacturers, one of the most competitive organizations in the world.</p>	


Computerized Machine Control for Mechanical Automation –Essentials for Cleaner Production- コンピューターによる機械制御－クリーナープロダクションのための高度設備システムの構築		GROUP	0880886
		Environmental Management—Cleaner Production	
		6 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants will acquire the knowledge and techniques of mechanical automation, quality management, and productivity improvement in order to play an essential role in realizing successful mechanical automation and cleaner production. To reach the objective, participants are expected to achieve the following results. (1) To develop equipment management abilities (cleaner production, equipment management and maintenance) (2) To master the basics of control systems (classical control theory, feedback control, simulation) (3) To master element technologies (electric and electronic technology, microcomputer, mechanical) (4) To master operation and application technologies	(1) Individuals interested in studying computerized machine control and mechatronics and have at least 5 years of work experience in the process industry or assembly industry such as production and maintenance (2) Mechanical engineering graduates, or equivalent (engineers with Ph.D. will not be accepted) (3) Age: Preferably under 35 years old		
CONTENTS	PROGRAM PERIOD	Oct.13.2008～Mar.18.2009	
(1) Cleaner production in manufacturing (2) Theory of servo control and process control and their practices by mini plants (3) Computer simulation of control systems using MALAB/SIMULINK and Bondgraphs (4) Computerized numerical control and its application (5) Practice of variable speed electric motors (servo motor and VVVF inverter system) (6) Programming of micro-processor for controlling a mini robot assembled by each participant (7) Cases of application such as industrial robots, CNC machine tools and injection molding machines (8) Study tours visiting some leading companies in Japan - Special Activity: Joining the Technical High School Robot Contest in Miyazaki Prefecture (venue: Miyazaki Prefectural Technical High School). The JICA Participants, with the cooperation of Miyazaki Technical High School, are to join the contest as a team and exercise machine control practices.	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2004～2008	
	REMARKS	This program provides the latest theory by professors, advanced industrial technologies by active engineers, and basic knowledge by experienced engineers, to develop leading engineers with a high degree of professionalism and vision.	


Environmental Impact Assessment for ODA Project ODAにおける環境影響評価		GROUP	0880936
		Environmental Management—Environmental Management	
		16 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Participants will be able to increase their capability for providing appropriate guidance to organizations engaged in EIA (Environmental Impact Assessment) or ESC (Environmental and Social Considerations) as well as being able to make more appropriate judgment for the implementation of EIA in their countries by referring to numerous advanced cases.</p> <p>【Outcome】 Through the program, participants are expected to: (1) Be able to explain the fundamental ideas, mission and problems of ESC. (2) Learn the efforts of international aid agencies to increase the awareness of ESC and be able to describe the requirements for development projects. (3) Be able to explain the points of procedures and techniques for the implementation of EIA/ESC. (4) Gain the skills to facilitate smooth consensus-building through workshops. (5) Be able to identify issues of EIA/ESC in their counties, analyze problems and logically present their solutions.</p>	<p>1) Examining authority for EIA, 2) National or Local Government engaged in large-scale development projects requiring EIA</p> <p>【Group】 (1)be technical officers in charge of planning and implementation of in ODA projects, (2)have basic knowledge and experience in EIA, (3)be able to utilize the knowledge obtained during the course to own administrative operations, (4)be under forty-five (45) years of age, (5)be university graduates or equivalents, (6)have enough English capability for discussions and presentations. (7)be in good health, both physically and mentally</p>		
CONTENTS	PROGRAM PERIOD	May.11.2008～Jun.7.2008	
<p><Preliminary phase in home country> Preparations for Inception Report (organizational framework and job description, state of EIA system and Cases conducting EIA in their organizations) and its presentation.</p> <p><Core Phase in Japan> A set of exercise, lectures and site visit will be covered in the main subjects follow. 1) Introduction to EIA, 2) International cooperation and EIA, 3) Procedures and methodologies of EIA, 4) Operational skills, 5) Presentation skills Through these subjects, participants formulate model plan for implementing EIA.</p> <p><Follow-up phase in home country> Participants are expected to report the current situation on EIA.</p>	IMPLEMENTING PARTNER	Overseas Environmental Cooperation Center	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2005～2009	
REMARKS	Since this program is subject to administrative officers with technical background, researchers may not be able to attain their academic objectives through this training program.		


Environmental Radioactivity Analysis and Measurement Technique 環境放射能分析・測定技術		GROUP 	0880938
Environmental Management—Other Environmental Management Issues			
		3 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>This program provides opportunity for technicians and researchers of environmental radioactivity analysis/measurement institutions in countries, that have nuclear power plants/experimental reactors or highly concentrated natural radiation sources to enable them to precisely measure radiation doses and protect people from its effects.</p> <p>By the end of this program, participants will be able:</p> <p>(1) To acquire basic knowledge necessary to carry out environmental radioactivity analysis & measurement,</p> <p>(2) To understand methods to collect & pretreat environmental samples,</p> <p>(3) To understand methods of radionuclide analysis (gamma-ray spectrometry, tritium analysis, radiostrontium analysis, uranium analysis and radon measurement),</p> <p>(4) To understand methods for measurement of environmental gamma ray dose rate and accumulate dose, and</p> <p>(5) To formulate action plan to apply acquired knowledge for future activities in their country.</p>	<p>[Target Organizations] Radioactivity analysis/measurement institutions.</p> <p>[Target Groups] Technicians or researchers with basic knowledge on environmental radioactivity analysis/measurement.</p>		
CONTENTS	PROGRAM PERIOD	Aug.15.2008~Sep.15.2008	
<p>This program consists of lectures, laboratory exercises, and observation tours. The following subjects will be covered:</p> <p>(1) Basics of Environmental Radioactivity Analysis,</p> <p>(2) Collection and Pretreatment of Environmental Samples,</p> <p>(3) Gamma-ray Spectrometry with a Ge Semiconductor Detector,</p> <p>(4) Tritium Analysis,</p> <p>(5) Radiostrontium Analysis,</p> <p>(6) Uranium Analysis,</p> <p>(7) Radon Measurement,</p> <p>(8) Measurement of Environmental Gamma Ray,</p> <p>(9) Formulation of Action Plan</p>	IMPLEMENTING PARTNER	Japan Chemical Analysis Center	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2005~2009	
	REMARKS	Countries, that have nuclear power plants and/or experimental reactors or highly concentrated natural radiation sources, and those making effort to monitor environmental radioactivity.	


Water Environmental Monitoring 水環境モニタリング		GROUP 	0880962
Environmental Management—Water Pollution			
		10 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 This course aims at enhancing technical capabilities of officers and laboratory staffs in the field of water quality monitoring and helping them develop action plans for improving their operations.</p> <p>【Outputs】 Participants are expected to be able to:</p> <p>(1)To be able to explain the mechanism of the water pollution and its effects.</p> <p>(2)To deepen the knowledge on water quality management.</p> <p>(3)To gain the basic practical skills on water quality monitoring and data processing.</p> <p>(4) To analyze the challenges on water quality monitoring in relevant organization and formulate an action plan.</p>	<p><Organization> (1) Central/local government and public institutions in charge of water quality monitoring.</p> <p><Qualifications> (1)leading technical officers in central and local government to plan and implement comprehensive and systematic monitoring on water quality. (2) being a university graduate (science or engineering) or have the equivalent academic background, and have basic knowledge on water environment, (3)25 -35 years of age, (4)have sufficient command for discussing and making presentation in English</p>		
CONTENTS	PROGRAM PERIOD	Sep.7.2008~Oct.25.2008	
<p><Preliminary Phase in home country > Making a Country Report describing job outlines, the status of water quality management, water environment. Filling up Questionnaire.</p> <p><Core Phase in Japan > The set of lectures, practice, site visits and discussion session will be conducted. The main subjects are:</p> <p>(1) Mechanism of water pollution and its effects on our life</p> <p>(2) Water pollution management system</p> <p>(3) Methodology of water quality monitoring</p>	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2005~2009	
	REMARKS	Other Implementing Partner -National Environmental Research & Training Institute, Ministry of Environment -Japan Society on Water Environment	


Seminar on Comprehensive Solid Waste Management 廃棄物総合管理セミナー		GROUP 	0880974
		Environmental Management—Urban Solid Wastes	
		10 participants /	ENGLISH
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants are expected to 1. expand the knowledge on administration system of solid waste management system. 2. enhance the outline of solid waste management technologies which include collection, transportation, intermediate treatment, final disposal, re-use and recycling. 3. expand the knowledge for improving their institution through understanding their own problems and other countries' case.	(1) Mid-career officials presently in charge of solid waste management in central or provincial governments or in local bodies, with more than 2 years of occupational experience in this field (2) Under 45 years old (3) University graduates or possess equivalent technical qualifications in this field		
CONTENTS	PROGRAM PERIOD	May.13.2008~Jul.2.2008	
The following subjects are covered at the seminar; (1) Waste management administration in Japan, Planning of waste management (2) Reduction of waste and citizen's participation (3) Solid waste collection and transportation (4) Solid waste treatment and disposal (5) Recycling and reuse technologies (6) Hazardous waste management (7) Others (country report presentation, group discussion and action plan presentation)	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2005~2009	
	REMARKS	This program is designed for countries whose main final disposal site is NOT in coral area. The country report is used not only for selecting applicants, but also for presentation.	

Environmental Management Technology in Chemical Industries 化学産業における環境管理技術		GROUP 	0880982
		Environmental Management—Other Environmental Management Issues	
		5 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The participants are expected to obtain the capabilities of applying environmental management skills and methods in their respective countries, through learning of the latest information regarding those skills used in Japan. [Expected Results] 1. To broaden understanding of the legal system and management technique for chemicals through the whole life cycle from production to disposal of products as well as their environmental management 2. To acquire technical knowledge needed for the management of chemical substances such as test and assessment methods, risk assessment techniques, etc. 3. To gain a better understanding on comprehensive knowledge of the latest technology currently used in Japan for environmental management i.e. safety management and reduction of effluent discharge, detoxification of hazardous chemicals, resources recycling, energy conservation, etc. 4. To gain understanding of environmental monitoring and domestic solid waste treatment conducted by local governments	[Target Organization] National or local governments, petrochemical and other chemical industries in charge of environmental management [Target Group] (1) Governmental inspectors or planners for the industry, business executives or technical engineers with at least 5 years of practical experience in the field of environmental conservation (2) Age: Under 45 years old (3) University graduates or those with equivalent academic background and proficient command of spoken and written English		
CONTENTS	PROGRAM PERIOD	Jun.2.2008~Jul.19.2008	
1: Orientations and the Latest Technologies Implemented in Local Government (1) Introduction of the City of Yokkaichi and its Petrochemical Industrial Complex (2) Laws on Emission and Disposal of Chemicals (3) Footsteps on Improving Environment (Yokkaichi's Experience) (4) Local Government's Environment Monitoring System 2: Risk Management Technology on Chemical Substances (1) Risk Management of Chemical Substances and Latest Technology of Analysis (2) Cleaner Production (3) Air Pollution and Water Pollution Control Technology 3: Environmental Management of Chemical Industries (Factories visit) 4: The Latest Technology for Chemical Substances Management (1) Solid Waste Final Disposal Site (2) Dioxin Analysis Technology (3) Toxic Chemical Substances Control (4) Energy Saving Type Wastewater Treatment Technology 5: Summary (Evaluation Meeting and Final report & Action Plan presentation)	IMPLEMENTING PARTNER	INT'L CENTER FOR ENVIRONMENTAL TECH. TRANSFER	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2005~2009	
	REMARKS	http://www.icett.or.jp/ For applicants from non-governmental organization, an official authorization is needed to show the equivalence to a governmental organization.	

Environmental Policy and Environmental Management System 環境政策・環境マネジメントシステム		GROUP 	0880992
		Environmental Management—Environmental Administration	
		9 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
This course is designed for participants to be able to identify problems related to environmental policies and/or environmental management systems in each country or area utilizing the contents of the course, and thus propose the measures to solve them. To achieve this objectives, participants are expected to; 1. Consider applications to each country of Japanese experience in environment disruptions and other environmental issues, Japanese legislative efforts upon environment, and cooperative initiatives among local people, public administrations and private companies. 2. Acquire the ability to propose the introduction of international standards on environment conservation. 3. Consider measures necessary to initiate the environmental conservation with global view points and endurable development, and 4. Utilize Environmental Management System (EMS) as a methodology for the endurable development, through the practices of the system.	(1) Middle-ranking officials in charge of project planning in the field of environment (2) Individuals with more than 10 years of experience (3) Between 35 and 45 years of age (4) University graduates		
CONTENTS	PROGRAM PERIOD	Apr.29.2008~Jun.28.2008	
In this program, 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 sources (5) Establishment of environmental management plan and regional pollution prevention plan (6) Environmental assessment (7) Sustainable development (8) Preservation of global environment	IMPLEMENTING PARTNER	GLOBAL ENVIRONMENT CENTRE FOUNDATION	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2005~2009	
	REMARKS	Through a 6 day programme, participants will get 50% points to get the international authorized environmental audit personnel including UNEP personnel.	

The environmental Management of Enclosed Coastal Seas 閉鎖性海域の水環境管理		GROUP 	0880997
		Environmental Management—Water Pollution	
Target Countries: Countries with closed marine systems and/or river estuary regions		4 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
To transfer skills related to Japan's experiences of environmental management in enclosed coastal seas and develop the human resources who could play a major role in this field. To reach the objective, participants are expected to achieve the following: (1)To clarify environmental problems or issues related to enclosed coastal seas in your country through formulating and presentation of Job Report (2)To improve your knowledge or skill in this field through the training (3)To formulate a practical action plan and finding a solution to environmental problems in your country (4)To share your action plan in your organization and submit a progress report after 6 months	【Target Organizations】 Department take in charge of environmental management of enclosed coastal seas 【Target Group】 Officers, educators, and engineers in administrative bodies who presently need information and/or experience on the environmental management of enclosed coastal seas		
CONTENTS	PROGRAM PERIOD	May.19.2008~Aug.2.2008	
Preparatory Phase: Preparation of Job Report on environmental problems of enclosed coastal seas in participant's country. Program in Japan: (1)Overview of the management of enclosed coastal seas (2)Mechanisms of Environmental Pollution in Enclosed Coastal Seas (3)Environmental Management and Policies for Sustainable Development of Enclosed Coastal Seas (4)Methods of monitoring Enclosed Coastal Seas (5)Extension Program Post-program activities: Implementation of Action Plan Participants have to submit a progress report after 6 months	IMPLEMENTING PARTNER	INTERNATIONAL EMECS CENTER	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2005~2009	
	REMARKS		

Sewage treatment technique for Central and South America 中南米地域生活排水処理		R/F 	0884018
Target Countries: Central and South America		12 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The purpose of this program is to enhance participants' capacities to improve the present situation of sewage treatment in respective countries by acquiring the fundamental knowledge and techniques for sewage treatment through learning the experiences of Japan and other countries.	【Target Organizations】 Department in charge of planning, operation and maintenance of sewage treatment facilities in central/local government or concerned organizations 【Target Group】 Technical officials who meet the following qualifications; (1) Individuals in charge of planning, operation and maintenance of sewage treatment facilities in central/local government or concerned organizations (2) Individuals with a university degree in the field of science and basic knowledge about sewage treatment		
CONTENTS	PROGRAM PERIOD	Sep.2.2008~Nov.9.2008	
This course consists of lectures, discussions, practical exercises, and site observation. * Water Environmental Issues and Sewage Treatment * General Theory of Sewage Treatment Technique * Current Situations and Issues of Sewage Treatment in Developing Countries * Capacity Development on Sewage Treatment * Site Observation of Sewage Treatment Facilities, etc.	IMPLEMENTING PARTNER	Higashi-hiroshima city, Hiroshima International Center	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2007~2009	
	REMARKS		

Environmental Protection Technology and Management against Air Pollution 日韓共同 大気環境保全管理			0884138
Target Countries: Asia		15 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Government administrative officers and researchers in developing countries, who are in charge of air quality management or monitoring in national/local government become able to set basic policy strategies to address own problems. (1)To understand basic knowledge on air pollution problem (2)To understand the policy and regulation for air quality management at central and local government in Korea and Japan. (3)To acquire the knowledge of monitoring and inspection system taken by national/local government in Korea and Japan. (4)To observe and understand monitoring methodologies for prevention of environmental pollution by private company. (5)To propose "action plan" for air quality management in own countries.	1) Individuals with more than 5 years experience of administrative or research work in the area of air quality management 2) Administrative engineers and researchers in the field of air quality management 3) Age: 30-50 years old		
CONTENTS	PROGRAM PERIOD	Oct.5.2008~Oct.18.2008	
Korea: 1) Global environmental issues 2) Indoor air pollution 3) Toxic organic and inorganic chemicals in atmosphere (POPs) 4) VOC control technology 5) Introduction of Research Institute of Public Health and Environment 6) Air quality policy in Korea Japan: 1) Observation of ambient air quality monitoring center 2) History and current state of air pollution control in Japan 3) Administrative measures for air pollution control 4) Administrative regulation of automobile exhaust gas 5) The way for promoting comprehensive air pollution control 6) Dust collection technology 7) Removal techniques of sulfur and nitrogen oxides	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD		
	REMARKS		

Target Countries : Southwest Asia

8 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants will acquire comprehensive knowledge and skills on pollution control measures to enhance their capabilities for effective planning and implementation of pollution control.</p> <p>To attain the objective, participants are expected to achieve the following results:</p> <p>(1) To clarify the issues and causes of pollution control in respective countries (2) To understand the present system and historical process of pollution control in Japan mainly focusing on the role and function of local governments (3) To understand the fundamental techniques for water quality preservation, air quality preservation, and solid waste management (4) To understand the importance and concrete methods of environmental education/awareness for pollution control (5) To understand the system and methodologies of EIA (6) To make an Action Plan to promote effective pollution control in respective countries based on the knowledge and skills acquired from the course</p>	<p>【Target Organizations】 Departments in charge of pollution control (legislation and enforcement of related laws, planning and implementation of anti-pollution measures, monitoring and technical support) in central/local government or concerned organizations</p> <p>【Target Group】 (1) Administrative officials in charge of pollution control in national/local governments (2) Over three years of work experience in the field (3) University degree or equivalent (4) Sufficient command of written and spoken English (5) Under 45 years of age in principle</p>	
CONTENTS	PROGRAM PERIOD	Sep.23.2008~Dec.21.2008
<p>The program consists of the following units;</p> <p>(1) Issue analysis workshop: Analysis of issues and causes of pollution control in participants' countries (2) Country report presentation: Sharing the results from (1) (3) Overview: Environmental preservation administration, anti-pollution laws and environmental preservation techniques in Japan (4) Water quality preservation (5) Air quality preservation (6) Solid waste management (7) Environmental impact assessment (EIA) (8) Environmental education/awareness (9) Feedback session: Review of each unit of the training (10) Final report preparation and presentation: Considering an action plan for improving pollution control in participants' countries</p>	<p>IMPLEMENTING PARTNER</p>	Hiroshima Prefectural Government
	<p>JICA CENTER</p>	JICA Chugoku
	<p>COOPERATION PERIOD</p>	2006~2008
	<p>REMARKS</p>	

Target Countries : Asia-Pacific region and Central and South America

9 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>To foster the personnel in charge of AR-CDM, and to enhance their abilities to develop and implement measures on AR-CDM</p>	<p>【Target Organization】 Central administrative organizations in charge of policies regarding AR-CDM</p> <p>【Target Group】 Administrative officers working for AR-CDM in central administrative organizations or its related organizations, or researchers Participation of counterparts in projects for technical cooperation is encouraged.</p>	
CONTENTS	PROGRAM PERIOD	Oct.14.2008~Nov.9.2008
<p>Lectures to understand the mechanism of global warming and measures for forest conservation scientifically and to understand Kyoto Protocol, rules for Kyoto mechanism, rules for AR-CDM and small scale AR-CDM Observations to grasp the present situations regarding forest conservation in Japan that contributes to AR-CDM Country report presentations and discussions to understand the roles of developing countries concerning Kyoto Protocol and forest conservation Practices about the carbon absorption calculation method and its actual calculation, and the processes to formulate a project plan for AR-CDM and to draw up project design drawing (PDD) The participants will make plans to conduct AR-CDM projects verified adaptability to their own countries.</p>	<p>IMPLEMENTING PARTNER</p>	JICA
	<p>JICA CENTER</p>	JICA Tokyo
	<p>COOPERATION PERIOD</p>	2007~2009
	<p>REMARKS</p>	

Target Countries : Asian Countries


6 participants / English


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants are expected to</p> <ol style="list-style-type: none"> 1. learn the experience and knowledge on hazardous waste management in Japan. 2. share their experiences on hazardous waste management in their countries. 3. formulate draft Action Plans during the course to improve their situation through understanding their own problems. <p>as expected after returning their countries be able to develop a hazardous waste management policy in their respective countries.</p>	<p>【Target Organizations】 Organizations engaged in hazardous waste management in the central government agencies</p> <p>【Target Group】 (1) Mid-career officials presently in charge of hazardous waste management in central government agencies (2) Under 45 years old (3) University graduates or with equivalent technical qualifications in this field</p>	
CONTENTS	PROGRAM PERIOD	Nov.18.2008~Dec.20.2008
<p>The following subjects are covered during the course;</p> <ol style="list-style-type: none"> (1) Measures taken by central and local governments in Japan against hazardous waste including success and failure cases (2) Approach of business enterprises to specified wastes such as industrial wastes and hospital wastes generated by their activities (3) Comprehension of current treatment system and problems through observation trips to business enterprises and hospitals which generate hazardous wastes (4) Formulation of draft Action Plans through discussion, group work, knowledge and experience obtained in the course (5) Follow-up through an individual consultation, TV conference, etc., if necessary (financial support for realization of such an action plan as construction of disposal plant is not included) 	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center
	JICA CENTER	JICA Yokohama
	COOPERATION PERIOD	2007~2009
	REMARKS	

Target Countries : Southwest Asia


8 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants will acquire the knowledge and techniques to realize improvement measures for the solid waste management of respective countries.</p> <p>To reach the objectives, participants are expected to acquire the following knowledge and techniques :</p> <ol style="list-style-type: none"> (1) Outline of environment / Administration / Organization / Finance and Economy / Law and legislation / Feasibility (2) Collection and conveyance (3) Treatment ("semi-aerobic" system landfilling) (4) 3R (Reduce, Reuse, Recycle), composting (5) Public awareness and participation <p>* This training course aims to realize the improvement measures by discussions, presentations and exchange of information or present conditions and efforts already conducted in respective countries.</p>	<p>【Target Organization】 Organizations responsible for solid waste management</p> <p>【Target Group】 (1) Administrator officials responsible for solid waste management (2) At least 5 years of experience in the field</p>	
CONTENTS	PROGRAM PERIOD	Oct.29.2008~Dec.15.2008
<p>A. Lectures & Field Visits</p> <ol style="list-style-type: none"> 1) Outline of environment / Administration / Organization / Finance and Economy / Law and legislation / Feasibility History of overcoming pollution in Kitakyushu City, international cooperation on environmental issues, waste treatment in Kitakyushu City 2) Collection and conveyance Separation, collection and transportation of waste in Kitakyushu, time and motion study for waste collection, collection and incineration of medical waste 3) "Semi-aerobic" system landfilling 4) 3R (Reduce, Reuse, Recycle), composting Reclaiming of scrap metal, compost using household garbage and dung of livestock 5) Public awareness and participation Reconversion as resources for waste, environmental education for citizens, Community activities <p>C. Group discussion D. Action plan presentation</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2007~2009
	REMARKS	Expected number of participants per country : 2

Operation and Maintenance of Sewerage System and Waste Water Treatment Technique 下水道維持管理システムと排水処理技術		GROUP  0880103
		Environmental Management—Water Pollution
		9 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
【Objectives】 Based on the Action Plan proposed by respective participant, the knowledge or skills shall be shared his/her organization. 【Outputs】 (1) To review basic knowledge of sewerage systems and wastewater treatment (2) To acquire knowledge necessary for planning and designing of sewerage systems (sewer network, wastewater treatment plants) (3) To acquire knowledge necessary for maintaining sewerage systems (sewer network, wastewater treatment plants) (4) To acquire knowledge necessary for industrial wastewater treatment and pretreatment facilities for discharge to sewerage systems (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries, with a clear understanding of relevant experiences and knowledge acquired in the course	【Target Organizations】 National/Local authority in charge of sewerage system operation and maintenance	
CONTENTS	PROGRAM PERIOD	Jan.30.2009~Mar.30.2009
(1) - Japanese regulation and situation of sewerage system - Sewerage in Kitakyushu - Basic planning for sewerage system (2) - Sewer network planning - Construction and designing of sewage treatment facilities - Principles of biological treatments and selections of treating methods (3) - Construction of sewer network - Operation and maintenance of sewer network - Maintenance of wastewater treatment facilities - Water quality practices - Effective use of sewage sludge (4) - Water quality regulation of industrial wastewater - Water quality inspection of industrial wastewater - Wastewater treatment facilities (5) - Job report preparation (in advance), and presentation - Action plan preparation, and presentation - Report to JICA the progress of knowledge/skills sharing among the respective organization.	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS	

Operation and Maintenance of Sewerage System and Waste Water Treatment Technique 下水道維持管理・都市排水		GROUP  0880105
Target Countries : Bhutan, Maldives, South Africa, Tanzania, Zimbabwe, Angola, Mauritius		Environmental Management—Water Pollution
		8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Based on the Action Plan proposed by respective participant, the gained knowledge or skills shall be shared in his/her organization.</p> <p>【Outputs】 (1) To acquire basic knowledge of sewerage systems and wastewater treatment (2) To acquire knowledge necessary for planning and designing of sewerage systems (sewer network, wastewater treatment plants) (3) To acquire knowledge necessary for maintaining sewerage systems (sewer network, wastewater treatment plants) (4) To acquire knowledge necessary for sewerage administration and International cooperation (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries, with a clear understanding of relevant experiences and knowledge acquired in the course</p>	<p>【Target Organizations】 National/Local authority in charge of wastewater treatment, sewage work and stormwater drainage</p> <p>【Target Group】 (1) be university graduate or those who have equivalent technical qualifications in this field, and have more than five(5) years of practical experience (2) be senior technical officers in charge of sewerage and drainage management in central /local government (3) be under 40 years of age</p>	
CONTENTS	PROGRAM PERIOD	Sep.23.2008～Nov.22.2008
<p>(1) To review basic knowledge related to; - Japanese regulation and situation of sewerage system - Sewerage in Osaka</p> <p>(2) Planning, designing and constructing of Sewerage facilities (Basic Plan, sewage pipe line, pumping station, sewerage treatment facilities, sludge treatment facilities, Principles of biological treatments and selections of treating methods)</p> <p>(3) Maintenance of sewerage systems (Sewerage ledger, sewage pipe line, pumping stations, sewerage treatment facilities, sludge treatment facilities, water quality regulations and industrial wastewater, water quality test)</p> <p>(4) Sewerage administration and international cooperation (Finance and management of sewerage works)</p> <p>(5) Preparation/Presentation of action plan -Country Report preparation (in advance), and presentation -Action plan preparation, and presentation - Report to JICA the progress of knowledge/skills sharing among the respective organization.</p>	IMPLEMENTING PARTNER	Public works bureau/Osaka City,
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008～2010
	REMARKS	


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>This course is designed to enhance the knowledge and techniques of leading technical in sewage management. Upon completion, followings outputs are expected;</p> <p>(1) To review basic knowledge of sewerage systems and wastewater treatment (2) To acquire knowledge for planning and designing of sewerage systems (sewer network, wastewater treatment plants) (3) To acquire knowledge for maintaining sewerage systems (sewer network, wastewater treatment plants) (4) To acquire knowledge for industrial wastewater treatment and pretreatment facilities for discharge to sewerage systems (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries</p>	<p>【Target Organizations】 National/Local authority in charge of sewerage system operation and maintenance</p> <p>【Target Group】 (1) Senior technical officers in charge of sewerage management in central and local government (2) University graduates or equivalent qualifications in operation and maintenance of sewerage facilities (3) More than five (5) years of practical experience. (4) Proficient in spoken and written English.</p>	
CONTENTS	PROGRAM PERIOD	Sep.9.2008~Nov.8.2008
<p><Preparatory Phase> Job-Report Preparation <In Japan> (1) Japanese regulation and situation of sewerage system (Sewerage in Sapporo, Basic planning for sewerage system) (2) Sewer network planning, Construction and designing of sewage treatment facilities, Principles of biological treatments and selections of treating methods (3) Construction of sewer network(Operation and maintenance of sewer network, Maintenance of wastewater treatment facilities, Water quality practices, Effective use of sewage sludge (4) Water quality regulation of industrial wastewater, Wastewater treatment facilities <Finalization Phase> -Action plan preparation, and presentation -Report to JICA the progress of knowledge/skills sharing among the respective organization.</p>	<p>IMPLEMENTING PARTNER</p> <p>Construction Bureau, City of Sapporo</p>	
	<p>JICA CENTER</p>	<p>JICA Sapporo</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p>REMARKS</p>	

Environmental Education Focused on Fresh Water Environment –For Tertiary Level		GROUP 	0880991
Teaching Staff- 水環境を主題とする環境教育		Environmental Management—Other Environmental Management Issues Nature Conservation—Other Nature Conservation Issues 6 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
〈Overall Goal〉 Activities for promoting environmental education are continuously implemented based on the Action plan approved by the participants' organization in their home countries. 〈Program objectives (Outcome)〉 This program is designed to strengthen the participants' capacity to make action plans to solve the problems which participants' countries/ organizations are facing and to develop and spread environmental education 〈Outputs〉 1) Understand the concept and theory of environmental education, 2) Acquire the skills to make curriculums for environmental education, and 3) Make draft action plans to solve the problems which participants' countries/ organizations are facing.	(1) University/College lecturers or equivalent (2) Engaged or expected to be engaged in environmental education (3) Engaged in environmental education more than 3 years (4) Under 35 years of age (5) University/college graduates or equivalent		
CONTENTS	PROGRAM PERIOD	Aug.18.2008～Oct.18.2008	
〈Preparatory Phase in participants' home countries〉 Preparation and Submission of Country Report 〈Phase in Japan〉 Participants will learn following items through lectures, observations and practices - Basic Concepts in Environmental Issues: Country Report Presentation, EE in General, Environmental Problems, Public Sanitation in General - EE Principles, Activities and Materials: Principles of EE, EE Activities and Teaching Materials - Deployment of EE: Know-how for Worldwide Dissemination of EE - Networking between Citizens, Schools and Governments - Presentation of Training Results: Lectures by Participants to University Students, Individual Discussion on Final Report 〈Finalization Phase in participants' home countries〉 Sharing and developing Action Plan, Submission of Final Report (including progress of the Action Plan) to JICA regional office	IMPLEMENTING PARTNER	Shiga University/ International Lake Environment Committee Foundation	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2005～2009	
	REMARKS		

Target Countries: Central Asia

10 participants / Russian

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] To enhance reliance on water analysis in Central Asia, and to establish effective implementation of environmental conservation policies relevant to the current environmental situation, through lectures and practices to analysts who engaged in water analysis in those countries.</p>	<p><Organization> Governmental environmental laboratory (or monitoring centers) in charge of water quality analysis</p> <p><Group> Analysts and/or Officials in charge of environmental monitoring (under planning)</p>	
CONTENTS	PROGRAM PERIOD	Nov.4.2008~Dec.13.2008
<p>【Preliminary Program】 Creation of Country/ Job Report</p> <p>【Program in Japan】 1. Water quality monitoring and analyzing system in Japan 2. Laboratory 3. Field and technical criteria of water quality monitoring and analyzing 4. Laboratory 5. Adaptation to home countries</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2004~2008
	REMARKS	

Sustainable community development by citizens' participation for West Balkan countries 西バルカン地域市民参加による持続可能な地域づくりと環境保全		R/F  0884200
Target Countries: West Balkan countries		Environmental Management—Environmental Administration 6 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Capabilities for implementing sustainable communities will be enhanced. To reach the objectives, the participants are expected:</p> <p>(1) To cultivate a practical ability to reflect knowledge in policies by understanding the Japanese framework for municipalities. (2) To obtain the know-how of sustainable community development based on collaboration between citizens and municipalities. (3) To formulate an action plan for sustainable community focused on democratic consensus-building .</p>	<p>(1)Local government officials responsible for the formulation and implementation of community-based environmental management policy. (2)At least 3 years of practical experience * Participants are expected to have strong interest in the participatory approach.</p>	
CONTENTS	PROGRAM PERIOD	Oct.27.2008～Nov.30.2008
<p>The curriculum consists of the following three parts:</p> <p>(1) Lectures (a) Community Development in Japan (b) Environmental impact assessment (EIA) (c) Environmental education /public awareness (d) Disclosure, environmental media, etc. (2)Field visits (a) Private companies with corporate social responsibility (CSR) (b) Model environmental cities (3) Presentation and Discussions/Workshop (a) Presentation of job report (b) Group discussion and panel session (c) Presentation of action plan</p>	IMPLEMENTING PARTNER	JICA
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2007～2009
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Proposed plan for formulation and implementation of adaptation for climate change will be considered at the respective organizations.</p> <p>【Outputs】 (1) Participants can explain the present status on adaptation for climate change in their countries. (2) Participants can formulate measures to solve the problems on adaptation for climate change in their countries. (3) Proposed plan on adaptation for climate change organized as Interim Report is discussed at the respective organizations.</p>	<p>【Target Organizations】 Administrative agency which is involved in adaptation for climate change</p> <p>【Target Group】 Administrative officials who are presently in charge of adaptation to climate change. Administrative or technical officials of the above organizations with at least 3 years of experience.</p>	
CONTENTS	PROGRAM PERIOD	Sep. 1, 2008 ~ Oct. 1, 2008
<p>Preparatory phase: Making Inception Report and presentation material which contain the present status on adaptation for climate change in their countries.</p> <p>Program in Japan: Making a presentation and discussion on Inception Report. Lectures, study trip and discussion on international framework on adaptation for climate change, impact assessment and vulnerability assessment, measures, technology and cases on adaptation for climate change in Japan. Making Interim Report which contains the measures and action plan to solve the problems on adaptation for climate change in their countries. Making a presentation and discussion on Interim Report.</p> <p>Developing Phase: Making a presentation on Interim Report at the respective organizations. Elaborating Final Report considering views of relevant parties and organizations.</p>	IMPLEMENTING PARTNER	National Institute for Environmental Studies
	JICA CENTER	JICA Tsukuba
	COOPERATION PERIOD	2008~2010
	REMARKS	


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 The Participants will design action plans, which show solution way to the issues of solid waste management in their responsible areas/organizations.</p> <p>【Outputs】 (1) 1. Participants marshal their issues and get hints to address them through exchange information & ideas with Japanese lecturers, other participants. (2) 2. The participants acquire knowledge & skills of waste countermeasures through the introduction of detailed actual conditions of waste treatment in major Japanese cities, mainly focused on Hyogo Prefecture. (3) 3. Participants can explain the role of citizens and the importance of the collaboration between local government & citizens. Participants get the ideas to apply the Japanese situation to their countries. (4) 4. Participants design action plans. They will explain the plans to their organizations and other related people.</p>	<p>【Target Organizations】 Local governments (or national governments' sections which support local governments' organizations) are in charge of urban solid management waste</p> <p>【Target Group】 Local government officers or public corporation officers in charge of waste disposal management (including technical officers)</p>	
<p>CONTENTS</p>	<p>PROGRAM PERIOD</p>	<p>Jan.12.2009~Mar.7.2009</p>
<p>(1) (Preliminary) Country Report preparation as an matrix form (In Japan) Getting information & ideas through Country Report Presentation & Discussion (In Japan) Getting organized knowledge of solid waste management in developing countries through lectures (2) (In Japan) Combination of lectures, practices and observations of Waste treatment planning, Reducing wastes, Waste collection, Intermediate treatment, Waste incineration, Final disposal, Recycling. (In Japan) Discussion and suggestions to apply the above mentioned items to participants' countries. (3) (In Japan) Lectures, observations for citizens's role and and the importance of the collaboration between local government & citizens in the field of solid waste management. (In Japan) Lectures, observations for environmental education and public awareness to reduce waste. (4) (In Japan) Designing action plans and its improvement through the discussion of the action plan presentation. (After retraining) Participants explain to their organizations. (After retraining) Participants report their activities on fields to the JICA contracted organization</p>	<p>IMPLEMENTING PARTNER</p>	<p>Hyogo Prefectural Environmental Create Center Public Corporation</p>
	<p>JICA CENTER</p>	<p>JICA Hyogo</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p>REMARKS</p>	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants will propose realistic measures against urban environmental problems in their cities.</p> <p>To reach the objective, participants are expected to achieve the following:</p> <ol style="list-style-type: none"> 1.To deepen understanding of methods and frameworks of urban environmental preservation for public health and safety. 2. To analyze and understand concrete environmental policies and projects (especially, best practices and controversial practices) which have been implemented by urban municipalities. 3.To understand methods and process to reflect monitoring results on environmental policies. 4.To make practical action plans based on the understanding about 1.-3. above, to tackle existing urban environmental problems in respective countries. 	<p>[Target Organizations] Municipalities in metropolitan areas</p> <p>[Target Group] (1) Technical officers in charge of environmental administration who now hold or will potentially assume managerial posts at municipalities which face urban environmental problems. (2) Individuals with at least 3 years of practical work experience</p>	
CONTENTS	PROGRAM PERIOD	Jan.20.2009~Feb.28.2009
<p><Preparatory phase> Formulation of Country Report</p> <p><Phase in Japan></p> <p>(1) Lectures:Approach to urban environmental management, Municipalities' missions and functions in urban environmental administration, Features and measures of main urban environmental problems (waste management, water pollution, disaster/energy control, etc.), Environmental education, etc.</p> <p>(2) Practice, discussion:PCM (Project Cycle Management), etc.</p> <p>(3) Observations and discussions:Case examples for urban environmental management, Case examples of environmental education</p> <p><Finalization Phase></p> <p>Action Plans will be shared and modified through discussion among persons concerned and the Final Report will be submitted to JICA within 3 months after return.</p>	<p>IMPLEMENTING PARTNER</p> <p>Environmental Affairs Bureau, City of Sapporo</p>	
	<p>JICA CENTER</p> <p>JICA Sapporo</p>	
	<p>COOPERATION PERIOD</p> <p>2006~2010</p>	
	<p>REMARKS</p>	


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] Participants will develop feasible actions to solve global warming in their country through understanding international trends of climate change.</p> <p>To reach the objective, participants are expected to achieve the following: 1) To understand the outline of mainstreaming climate change policy into sustainable development. 2) To understand the measures for developing national communications. 3) To understand the methodology of developing inventories of greenhouse gas emissions and sinks. 4) To understand measures for adaptation and mitigation against climate change. 5) To make a draft of action plans to solve problems in the field for which the participants are responsible.</p>	<p>[Target Organizations] 1) Governmental organizations in charge of climate change issues 2) Organizations designated as UNFCCC focal points</p> <p>[Target Group] - Administrative officials who are presently in charge of climate change/global warming issues</p>	
CONTENTS	PROGRAM PERIOD	Jan.8.2009～Mar.7.2009
<p>【Preparatory phase】 Participants will make a country report on the current situation of the climate change policy in their country. Participants will identify the essential problems regarding to their own job and their possible solutions.</p> <p>【Program in Japan】 Participants are expected to understand the overall view of the climate change issue in order to fulfill the responsibilities stipulated by the UNFCCC through lectures, discussions, practical exercises and site visits. 1) Outline of climate change 2) Outline of Mitigation (including CDM) and Adaptation 3) International framework for climate change issue</p> <p>【Development phase】 The draft of the action plans made in the program in Japan should be shared in the organizations of participants and should be elaborated as feasible action plans. Six months after leaving Japan, participants will report the progress of the final action plans to JICA.</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p>	<p>MINISTRY OF THE ENVIRONMENT</p> <p>JICA Tsukuba</p>
	<p>COOPERATION PERIOD</p>	2007～2009
	<p>REMARKS</p>	<p>Related website Ministry of the Environment: http://www.env.go.jp/en/</p> <p>Kyoto Mechanism Information Platform: http://www.kyomecha.org/e/index.html</p>

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 This course aims at achieving consensus for challenges on sewage works engineering and stormwater drainage among the related persons and clarified the issues on implementing projects and business for the solution.</p> <p>【Outputs】 Through the program, participants are expected: 1. To understand the related factors and procedure/methods for the designing/implementation of water sewage engineering and storm water drainage, 2.To formulate the practical improvement plan for the sewage engineering and storm water drainage in their territory 3. To achieve consensus for challenges on f sewage engineering and storm water drainage among the related persons and clarified the issues on implementing projects and business for the solution and report the progress in six months after their return.</p>	<p>【Target Countries/ Organizations】 Central or local governments, autonomies, public wastewater utilities</p> <p>【Target Group】 Senior technical officers in charge of sewage works</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Sep.2.2008～November.29.2008</p>
<p><Preliminary Phase in home country> Nominees are expected to make a Country Report, which is containing the status and issues of sewage, stormwater drainage technology, water environment, and laws in addition to present jobs activities. Besides, Case study theme specifying issues which participants work on through the program, on sewage services and water environment protection etc., are included.</p> <p><Core Phase in Japan> Participants develop an Action Plan, which is described actions to solve the case study, which is set by participants by considering concrete solution based on the knowledge and information gained from the program, after they distill and reprioritize their issues by referring Japanese case on sewage works, stormwater drainage and water environment. A set of lecture, site observation and discussion will be set at the point of the main subjects as following: (1) Basic knowledge on sewage works and stormwater drainage such as long-term plan, law, finance etc. (2) Planning, Design and Maintenance of sewerage system facilities (3) Urban stormwater drainage system (4) Environmental protection measures (5) Management of sewerage services</p> <p><Follow-up phase in home country> Participants are expected to show the Action Plan to their organizations and make the points clear to implement or revise the plan. And participants are expected to report on the progress.</p>	<p style="text-align: center;">IMPLEMENTING PARTNER</p>	<p>Sewage Business Management Center</p>
	<p style="text-align: center;">JICA CENTER</p>	<p>JICA Tokyo</p>
	<p style="text-align: center;">COOPERATION PERIOD</p>	<p>2005～2009</p>
	<p style="text-align: center;">REMARKS</p>	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Enhancement of capacity of national and local authority staffs in designing policies in relation to the implementation of Kyoto Mechanisms</p> <p>【Outputs】 (1) To deepen the understanding on the influence of greenhouse gas accumulation on climate change (2) To deepen the understanding on the Kyoto Protocol and its flexible mechanisms (3) To deepen the understanding on environmentally friendly technologies, including for the energy conservation and introduction of renewable energies (4) To deepen the understanding on roles to be played by developing countries in implementing the CDM</p>	<p>【Target Organizations】 Designated National Authorities (DNA) or other corresponding organizations like National Focal Points (NFP) and CDM related offices.</p> <p>【Target Group】 Administration officers who belong DNA or other corresponding organizations like NFP and CDM related office.</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Jun.9.2008～Jul.26.2008</p>
<p>(1) To take lectures on mechanism of climate change (2) • To take lectures on the overview of the UNFCCC and its Kyoto Protocol • To take lectures on each of the flexible mechanisms under the Protocol • To take lectures given by government staff of experienced host countries (such as China and India) on details of their work • To Take lectures regarding tools to use Kyoto Mechanisms (including feasibility studies, capacity building, technology transfer, finance and fund) (3) • To take lectures on efforts being made by Japanese industries and citizens to reduce consumption of energies and resources • To visit sites (plants, etc) where efforts for the energy/resource conservation is actually taking place (4) • To take lectures on the roles of developing countries in the implementation of CDM projects • To learn points of view of the Host Countries • To learn points of view of the Credit Buyer</p>	<p>IMPLEMENTING PARTNER</p>	<p>International Center for Environmental Technology Transfer</p>
	<p>JICA CENTER</p>	<p>JICA Chubu</p>
	<p>COOPERATION PERIOD</p>	<p>2008～2009</p>
	<p>REMARKS</p>	

Urban Solid Waste Management by Local government 地方自治体における都市廃棄物処理		GROUP  0880802
		Environmental Management—Urban Solid Wastes
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 The issues of solid waste management in participants' responsible areas/organizations will be improved through using an action plan, which is designed in Japan.</p> <p>【Outputs】 1. Participants marshal their issues and get hints to address them through exchange information & ideas with Japanese lecturers, other participants. 2. The participants acquire knowledge & skills of urban waste countermeasures through the introduction of detailed actual conditions of waste treatment in major Japanese cities, mainly focused on Osaka city. 3. Participants can explain the role of citizens and the importance of the collaboration between local government & citizens. Participants get the ideas to apply the Japanese situation to their countries. 4. Participants design action plans. They will explain the plans to their organizations and other related people.</p>	<p>【Target Organizations】 Local governments (or national governments' sections which support local governments' organizations) are in charge of urban solid management waste</p> <p>【Target Group】 1. Engineer or administrative officials of waste management experience or an equivalent level of knowledge 2. Experience in the relevant field: have more than 3 years' experience 3. Person will continue working in the same field after the training course</p>	
CONTENTS	PROGRAM PERIOD	Aug.19.2008～Oct.22.2008
<p>1. Preliminary: Country Report preparation as a matrix form, which marshal their issues and the training modules in Japan. 2. In Japan: (1) Getting information & ideas through Country Report Presentation & Discussion (2) Organizing knowledge of urban solid waste management in developing countries through lectures (3) Combination of lectures, practices and observations of planning, collection, intermediate treatment, incineration, final disposal, and recycling. (4) Discussion and suggestions to apply the above mentioned items to participants' countries. (5) Lectures, observations for citizens' role and the collaboration between local government & citizens in the field of solid waste management/environmental education and public awareness to reduce waste. (6) Designing action plans and its improvement through presentation & discussion. 3. After returning: Participants explain the action plans to their organizations. Participants report their activities on fields to JICA & implementing partners.</p>	IMPLEMENTING PARTNER	Osaka City Environment Bureau, Global Environment Centre Foundation (GEC)
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008～2010
	REMARKS	JICA Osaka and GEC run a website, which opens texts, participants' country reports and others to related people e.g. ex-participants, Japanese instructors. The people can do self-learning, sharing various information on the website.

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Administrators in charge of risk management and monitoring implementing analysts of target countries will be able to have a comprehensive understanding of the actual state of risk management of environmental chemicals.</p> <p>【Outputs】 (1) To learn about technology on risk assessment for environmental and industrial chemicals and their impacts on human health and ecosystems. (2) To learn about the theory and principle of techniques used for monitoring of environmental and industrial chemicals in environmental resources and agricultural products. (3) To gain analytical techniques and skills in sampling, sample preparation, pretreatment, instrument analysis, immunoassay and bioassay methods, (4) To complete research reports at the end of first and second half periods with given theme, and to prepare an action plan about the utilization and promotion of knowledge and techniques gained in the course</p>	<p>【Target Organizations】 Administrative organizations in charge of risk management and research institutes in charge of monitoring of environmental and industrial chemicals.</p> <p>【Target Group】 Administrator or manager in charge of risk management of chemicals, technical officers or technicians in charge of monitoring</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Feb.16.2009～Aug.22.2009</p>
<p>(1) Outline of environmental chemicals, risk evaluation, risk management and risk communication, Laws and regulations concerning environmental management. Effects on ecosystems, human health etc. (2) Theory and principle of chemical analysis for monitoring (soil, water, air and agricultural/livestock products). Theory and principle of instrumental analysis and bioassay (3) Practice on pesticide residue analysis remained in agricultural products Chemical analysis of agro products and environmental samples Immunoassay of POPs Theory and principle of various test kits (4) PCM Workshop for the selection of issues. Preparation of action plan for the presentation. Presentation of action plan and discussion</p>	<p style="text-align: center;">IMPLEMENTING PARTNER</p>	<p>Hyogo Prefecture, Kobe Quarantine Station, Kobe University, etc.</p>
	<p style="text-align: center;">JICA CENTER</p>	<p>JICA Hyogo</p>
	<p style="text-align: center;">COOPERATION PERIOD</p>	<p>2008～2010</p>
	<p style="text-align: center;">REMARKS</p>	

Industrial Wastewater Treatment Technique 産業廃水処理技術		GROUP  0880815
		Environmental Management—Water Pollution
		8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Enhance the capability of officials and engineers in charge of industrial wastewater treatment to formulate adequate plans of industrial wastewater treatment in participant's countries.</p> <p>【Outputs】 To achieve this program objective, participants are expected to achieve the followings in Japan; (1) To understand the importance of wastewater treatment and the water pollution related existing regulations included disposal treatment (2) To understand the water pollution control process, and the general concept of wastewater treatment technologies (3) To acquire the method of selecting wastewater treatment by analysis, and the basic design of wastewater treatment facilities (4) To understand the techniques concerning the detail design and manufacturing control of the facilities for precipitation filtration, neutralization, removal of oil contents etc. (5) To acquire the method of analyzing wastewater through practice, and to understand the methods of operation and maintenance of wastewater treatment facilities.</p>	<p>【Target Organizations】 Departments related to wastewater treatment in the central/local government or manufacturing enterprise.</p> <p>【Target Group】 1) Current Duties: be engineers in charge of wastewater treatment in government / municipal offices or manufacturing industries 2) Experience in the relevant field: have more than more than 5 years of occupational experience in the field of wastewater treatment 3) Educational Background: be a university graduate, majoring in chemical, mechanical, electrical or civil engineering, or the equivalent.</p>	
CONTENTS	PROGRAM PERIOD	Jul.14.2008~Nov.22.2008
<p>1. Preliminary Phase in a participant's home country Applying organizations are required to submit the Job Report and the Issue Analysis Sheet together with the application form for selection in Japan.</p> <p>2.Core Phase in Japan (Lecture, practice and/or field study) (1)Basic of Water Pollution Control (2)Basic Theory of Wastewater Treatment (3)Basic Plan of Wastewater Treatment (4)Design and Construction of Wastewater Treatment Facilities (5)Operation and Maintenance of Wastewater Treatment Facilities (6)Formulation of Action</p> <p>3. Finalization Phase in a participant's home country Application and implementation of the action plan is discussed in the participant's organization and its result will be submitted by March, 2009 based on the follow-up questionnaire to be provided during the phase in Japan.</p>	IMPLEMENTING PARTNER	Kyushu International Techno-Cooperative Association (KITA)
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS	

Target Countries: maritime country

10 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>To enable participants to make a contribution toward improving the marine environment conservation, by enhancing the skills and knowledge.</p> <p>To attain the objective, participants are expected to achieve the following:</p> <p>(1) To understand the activities, present situation and constraints of marine environment protection in respective countries,</p> <p>(2) To understand the international framework and activities of marine environment protection in Japan,</p> <p>(3) To formulate an action plan on how to develop and promote the effective policy of marine environment protection.</p>	<p>【Target Organizations】 Coast guard or maritime authority obliged to marine pollution prevention work</p> <p>【Target Group】 (1) Individuals in a managerial position. (2) Individuals who have more than 5 years of occupational experience in the above field.</p>	
CONTENTS	PROGRAM PERIOD	Under planning
<p>Following subjects are provided for each output mentioned above;</p> <p>(1) International framework of marine environment conservation</p> <p>(2) Outline of Japan coast guard</p> <p>(3) Outline of laws regarding marine environment in Japan</p> <p>(4) Activity for marine environment conservation</p> <p>(5) Assessment technique for vulnerability of environment</p> <p>(6) Actual condition of marine pollution in Japan</p> <p>(7) Marine disaster prevention</p> <p>(8) Analysis method of pollutant and oil and others</p> <p>(9) Regulatory measures for law violation of marine environment laws</p> <p>(10) Pollution survey method</p>	IMPLEMENTING PARTNER	Japan Coast Guard Association
	JICA CENTER	JICA Okinawa
	COOPERATION PERIOD	2008~2010
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>The purpose of this program is for participants of administrative engineers to implement systematic and comprehensive air pollution control measures through the following outputs;</p> <p>1. Fundamental knowledge of legislative systems and of the relation between industrial development and pollution with reference to Japanese cases, 2. Measurement techniques for gaseous substances and particle substances related to air pollution, 3. Emission source control techniques for polluting substances such as sulfur oxides, nitrogen oxides, soot and dust, 4. Application techniques for dispersion models required to prepare air pollution prevention plans, and 5. Management techniques for environmental control such as comprehensive and strategic enforcement of anti-pollution plans.</p>	<p>1) University graduates or equivalent 2) Administrative engineers with at least 5 years experience in the field of air pollution prevention. 3) Age: between 25-45 years old</p>	
CONTENTS	PROGRAM PERIOD	Sep.15. 2008~Dec. 13. 2008
<p>1. Overview of Environmental Problems: Air Pollution 2. Overview of Environmental Conservation Measures 3. Environmental Conservation: Efforts in industry 4. Planning of Air Pollution Control 5. Laws and Regulations 6. Dust: Measurement and Control 7. Fuel and Combustion 8. Desulfurization and Denitrification Techniques 9. Odor Pollution Control 10. Measurement of NOx and SOx 11. Stack Gas Diffusion 12. Atmospheric Diffusion 13. Data Processing for Air Pollution 14. Continuous Monitoring System 15. Hazardous Substance 16. Acid Rain 17. Automobile Pollution Control 18. Environmental Impact Assessment 19. Case Study</p>	IMPLEMENTING PARTNER	GLOBAL ENVIRONMENT CENTRE FOUNDATION
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2004~2008
	REMARKS	<p>A session is organized to discuss environmental problems caused by air pollution and countermeasures, using materials such as datas and photos which each participants will bring.</p>


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants will propose plans to better reflect upon the data and information obtained by the research section for the pollution control policy and administration in their countries. To reach the objective, participants are expected to achieve the following: 1) To gain practical ideas about an effective process of pollution control policy and measures (environmental policies, legal and administration systems, roles of research and administration sections and cooperation between them, the steps from surveys, and analyses to administrative measures) 2) To gain a concrete understanding of water preservation, water pollutant sources, sewage treatment methods, and related survey and analysis techniques 3) To gain a concrete understanding of air preservation, air pollutant sources, exhaust systems, and related survey and analysis techniques 4) To gain a concrete understanding of waste treatment and waste recycling 5) To make an action plan to strengthen the cooperation and interactions between research organizations, and policy and administration sections, and to better reflect upon the data and information obtained from research for the environmental policy and administration</p>	<p>(1) Technical officials and researchers responsible for pollution control at government environment research institutes, and technical officials in charge of pollution control policies and administration (NOTE: This program is NOT for officers/researchers in charge of natural conservation.) (2) University graduates in environmental engineering or chemistry (NOT biology)</p>	
CONTENTS	PROGRAM PERIOD	Sep.23.2008~Nov.15.2008
<p>Preparatory Phase: Preparation of Country Report Phase in Japan: (1) Lectures: Environmental administration in Japan and Hokkaido, Techniques for preventing water and air pollution, Environmental Impact Assessment(EIA), Solid waste management and recycling, Environmental education (2) Practical exercises: Techniques of environmental monitoring(air & water), Environmental pollution source (3) Observation: Organizations and facilities related to pollution control, Factories (possible sources of pollution) Finalization phase: Implementation of the Action Plan and report the progress.</p>	<p>IMPLEMENTING PARTNER Hokkaido Institute of Environmental Sciences</p> <p>JICA CENTER JICA Sapporo</p>	
	<p>COOPERATION PERIOD</p>	2005~2009
	<p>REMARKS</p>	<p>This program is NOT for technical officers/researchers in charge of natural conservation(including park management, preservation of wild life and forests)</p>


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><Objective> By sharing the outputs of this training course among organizations, knowledge for making environmental protection policies will be used more widely.</p> <p><Outputs> 1) Identify environmental problems caused by automobiles in their countries through collecting their own data related to environmental issues. 2) Acquire skills of predicting effects on introducing the regulations* and institutionalizing the countermeasures (e.g. control of exhaust gases). 3) Grasp the current international situation in the field of automobiles, through understanding international standards related to automobiles. 4) Understand the relationship between making regulations and developing technologies to deal with the issues. 5) Make an action plan (proposal) to be implemented in their country after returning home.</p>	<p>[Target Organizations] National or local organizations in charge of environmental issues concerning automobiles</p> <p>[Target Group] Administrative or technical officials of the above organizations with at least 5 years of experience</p>	
CONTENTS	PROGRAM PERIOD	Jun.19.2008～Aug.9.2008
<p>Preparatory phase: Making a job report describing present situation, issues, etc.</p> <p>Program in Japan: 1. Lectures and exercise •Outline of the automotive industry, governmental policy •Environmental issues: emission, fuels, clean energy, traffic flows •Traffic flows, vehicle recycling technology, registration •Atmospheric observation system, etc. 2. Discussion • Presentation of action plan and job report</p> <p>Developing Phase: (1) The action plan should be shared among their organization. (2) The results of discussions about the action plan are to be reported to JICA/JARI.</p>	IMPLEMENTING PARTNER	JAPAN AUTOMOBILE RESEARCH INSTITUTE (JARI)
	JICA CENTER	JICA Tsukuba
	COOPERATION PERIOD	2005～2009
	REMARKS	Web site: JARI http://www.jari.or.jp/en/index.html

Seminar on Ozone Layer Protection オゾン層保護対策セミナー		GROUP  0880937
Target Countries: Countries having ratified the Montreal Protocol		Environmental Management—Ozone Layer Depletion 7 participants / ENGLISH
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><Objective> Action Plan for the more efficient and effective implementation of Ozone Layer Protection and ODS Control are made by each participants, and the plan is shared among the participant's organization.</p> <p><Outputs> To achieve this program objective, participants are expected to;</p> <ol style="list-style-type: none"> 1. be able to explain the framework and requirements of the Montreal Protocol, the necessity of a national system for protection of the ozone layer and of cooperation with stakeholders including industries, 2. be able to explain the measures for reduction of ODS emission, 3. be able to explain the alternative substances of ODS emission, 4. point out the existing issues of their countries by analyzing the present situation referring to other countries' cases, and 5. propose an Action Plan which utilizes the Reduction Methodology of ODS Emission or Introduction Methodology of alternative substances which you have acquired during the seminar in order to improve each country's activity on Ozone Layer Protection / Fluorocarbons Control. 	<p>【Target Organizations】 Governmental organizations that are in charge of formulating and implementing policies relating to ozone layer protection</p> <p>【Target Group】 - Senior class administrative officers within the machinery of the government who are in charge of ozone layer protection or in those of the equivalent post * Researchers are NOT the target of this seminar. * Individuals who are recommended by Ozone unit are highly preferable.</p>	
CONTENTS	PROGRAM PERIOD	Jan.25.2009~Feb.21.2009
<p><Preliminary phase></p> <ol style="list-style-type: none"> 1. The participant consults with his/her supervisor about the feasibility of implementing the Action plan after returning to Japan—that is, what organizational resources (time, money, staff, space, etc.) are and are not available. 2. The participant presents Inception Report of the main issues on ozone layer protection, etc. <p><Core phase in Japan> The following subjects will be covered in this program in the form of lecture, discussion, presentation, and field visit.</p> <ol style="list-style-type: none"> 1. International approach for protection of the ozone layer, legislative and institutional arrangements in Japan, activity of Japanese industry 2. State of development on alternative technologies to reduce the consumption of ozone layer depleting substances 3. Overview of technologies to reduce the ozone layer depleting substances 4. Creating Action Plan <p><Post-program phase></p> <ol style="list-style-type: none"> 1. Presentation to supervisor and colleagues after returning to home country and discuss the feasibility of implementing action plan. 2. Submit a follow-up questionnaire. 	IMPLEMENTING PARTNER	Japan Industrial Conference for ozone layer and Climate Protection(JICOP)
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2005~2009
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Through the training course, participants are expected to gain the following outputs in order to manage the lakes (natural and artificial) and their basins appropriately for sustainable use of resources.</p> <p>1. To study local, regional, national and international programs for integrated basin management for lake and reservoir environments with particular reference to development and implementation of legal, administrative and institutional policy tools.</p> <p>2. To gain experience in field study, monitoring and techniques for analyzing and assessing lake and reservoir environment management.</p> <p>3. To acquire skills for developing sound programs of lake and reservoir management by properly integrating the components of the governance framework involving institutions, policies, stakeholder participation, technological investments, information, financing and other considerations.</p>	<p>1. University graduates or equivalent.</p> <p>2. Either technical officers in charge of lake/wetland water management (including management of rivers flowing into such water bodies) who are expected to assume executive administrative posts in that field, or researchers in water quality and ecosystem management who are expected to take leading roles in guiding the lake/wetland management programmes in their country.</p> <p>3. Individuals with more than five (5) years' occupational experience in the field.</p> <p>4. Individuals of between twenty-five (25) and forty (40) years of age.</p>	
CONTENTS	PROGRAM PERIOD	Jan.3.2009～Mar.15.2009
<p>1. Orientation Lecture and Practice</p> <p>2. Stage 1. Understanding the Resource</p> <p>Topic 1. Share Information about the State of Lakes</p> <p>Topic 2. Biophysical Characteristics</p> <p>Topic 3. Human Use of Lakes</p> <p>3. Stage 2. Meeting the Governance Challenge</p> <p>Topic 4. Institution</p> <p>Topic 5. Incentives and Regulations</p> <p>Topic 6. Involving People</p> <p>Topic 7. Technological Response</p> <p>Topic 8. Information</p> <p>Topic 9. Finance</p> <p>4. Stage 3. Synthesis (TBD)</p> <p>Topic 10. Plan to Action</p> <p>Topic 11. Towards the Future</p>	IMPLEMENTING PARTNER	INT'L LAKE ENVIRONMENT COMMITTEE FOUNDATION
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2005～2009
	REMARKS	<p>ILEC Homepage: http://www.ilec.or.jp/ Required to bring each country report contained on CD-ROM.</p>

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>The purpose of the training course is to propose a policy for constructing sound material cycle society for each country through understanding the current conditions in Japan. For this purpose, we set up the following 5 objectives:</p> <p>(1) To understand the concept of 3R (Reuse, Reduce, Recycle) and sound material cycle society (2) To understand how to reduce garbage (3) To understand how to recycle and collect the materials, (4) To understand the roll of stakeholders (central / local governments, private sector, residents, etc.) (5) To understand legislative and administrative measures for constructing the sound material cycle society.</p>	<p>【Target Organizations】 Central/Local governments or relevant agencies engaged in 3R (Reuse, Reduce, Recycle)</p> <p>【Target Group】 1) Belonging to an organization specified by G.I. 2) Willing to work for current organization in the future (at least five years) 3) More than 3 years experience in the field of environmental management or relevant fields 4) A section chief or equivalent positioned personnel in the organization mentioned above 5) Aged 25 to 50 years old</p>	
CONTENTS	PROGRAM PERIOD	Mar.3.2009～Mar.30.2009
<p>【Lecture】 1) Introduction to legal system for sound material cycle 2) Administrative framework for environmental education 3) Introduction to administration about domestic waste 4) Administrative framework to promote recycling industry 5) Introduction to cleaner production 6) National policy about sound material cycle 7) Administrative framework for hazardous waste 8) Current state in recycle business 9) Data collection and analysis for material cycle flow 【Field visit】 1) Separate collection in offices/houses 2) Visit to recycle factory 3) Environmental education in schools / local community 4) Compost activity for cooking garbage by citizen groups 5) Visit to landfill site</p>	IMPLEMENTING PARTNER	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2006～2008
	REMARKS	Expected number of participants per country: 3

Industrial Pollution Control Management for Middle Eastern Countries 中東地域産業環境対策		R/F 	0884021
Environmental Management—Other Environmental Management Issues			
Target Countries : Middle East		9 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Enable the participants (administrators in charge of controlling industrial environment) to formulate policies and programs for guiding industries by utilizing the analysis techniques, equipment control, and administrative measures taught in this course.</p> <p>To understand:</p> <ol style="list-style-type: none"> 1) air pollution control administration and pollution control technologies, 2) water pollution control administration and pollution control technologies, 3) waste treatment administration and effective treatment technologies, 4) measurement of environmental pollutants and their effects upon the human body and the natural world, and 5) environmental improvement techniques, and to design an environmental improvement activity plan to suit an issue in the participant's country. 	<p>【Target Organization】</p> <ul style="list-style-type: none"> • Government Organization in charge of Industrial Pollution Control <p>【Target Group】</p> <ul style="list-style-type: none"> • Administrators with 3 or more years of work experience in industrial environmental management. • University degree from engineering department or comparable knowledge preferably in the fields of chemical engineering, sanitary engineering, environmental engineering, or civil engineering. • Under the age of 45 		
CONTENTS	PROGRAM PERIOD	Nov. 3,2008~Feb.27.2009	
<ol style="list-style-type: none"> 1. Preliminary Phase in a participant's home country Preparation of Issue Analysis Sheet 2. Core Phase in Japan (Lecture, practice and/or field study) <ol style="list-style-type: none"> (1) Air pollution control administration and pollution control technologies, (2) Water pollution control administration and pollution control technologies, (3) Waste treatment administration and effective treatment technologies, (4) Measurement of environmental pollutants and their effects upon the human body and the natural world, and (5) Environmental improvement techniques, and design of an environmental improvement activity plan to suit an issue in the participant's home country. 3. Finalization Phase in a participant's home country Application and implementation of the action plan is discussed in the participant's organization and its result will be submitted by March, 2009 based on the follow-up questionnaire to be provided during the phase in Japan. 	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2006~2010	
	REMARKS		

Waste Management Technologies and 3Rs for Central and South American Countries 中南米地域 廃棄物処理技術および3R		R/F 	0884026
		Environmental Management—Urban Solid Wastes	
Target Countries: Central and South America		10 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>To acquire knowledge/skills of waste management(Disposal and 3R) and formulate Action Plans to improve waste management system in the participant's respective countries.</p> <p>(1)To learn waste disposal technologies and 3R policy in Japan (2)To learn the roles/functions among organizations/stakeholders concerned to develop sound material-cycle society (3)To propose feasible "Action Plan" for proper disposal of waste by making the best use of the learnt knowledge/technologies (4)To establish the participants' network in order to exchange relevant information/knowledge after completion of the program in Japan</p>	<p>1) Technical or administrative personnel in central or local governments in the field of waste management and the 3Rs (Reduce, Reuse and Recycle) 2) Individuals with at least 5 years of practical work experience 3) University graduates or equivalent in sciences</p>		
CONTENTS	PROGRAM PERIOD	Aug.12.2008～Sep.27.2008	
<p><Preparatory Phase> Formulation of Country Report <Curriculum in Japan> 1) Waste management administration - Collection and transportation of waste on the city level - The 3R policy (the 3R Initiative) - Transition of waste management administration in Japan 2) Waste treatment techniques - Industrial waste treatment techniques (intermediate, final disposal) - Recycling and composting techniques 3) Public awareness - Environmental education - Discussions with citizens <Finalization Phase> Implementation of the Action Plan and the report of the progress.</p>	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center and Environmental Affairs Bureau, City of Sapporo	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2007～2009	
	REMARKS		

Target Countries: Southern and Eastern European Countries


9 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Participants will understand knowledge and techniques regarding cleaner production aiming to develop an action plan to promote cleaner production activities in their countries.</p> <p>【Outputs】 (1) To understand the definition, concept, necessity, role of governmental and private sector regarding cleaner production. (2) To understand the knowledge and techniques regarding technology to minimize environmental impact. (3) To understand the knowledge and techniques regarding energy conservation technology. (4) To understand the knowledge and techniques regarding resource saving technology. (5) To understand the knowledge and techniques regarding recycling technology.</p>	<p>【Target Organizations】 Enterprise including former national enterprise in energy consumption industry, governmental organization in charge of cleaner production, environment</p> <p>【Target Group】 (1) Individuals from above-mentioned organization (2) Individuals with more than 5 years occupational experience in this field</p>	
<p>CONTENTS</p>	<p>PROGRAM PERIOD</p>	<p>Nov.10.2008~Dec.19.2008</p>
<p>(1) Definition, concept, necessity, role of governmental and private sector regarding cleaner production, Green productivity, Public awareness activity, Environmental law, Recycling society and global issue, Environmental administration and monitoring system, Inspection and guidance system for private sector (2) Zero emission, Wastewater treatment (Plating waste), Exhaust emission control system, Reduce of solid waste, Environment impact assesment (3) Energy conservation and global issue, Energy conservation law and its enforcement in Japan, Energy management in a plant, Case study - Energy conservation activities in a plant, Energy consevation technology on heating furnace, Machine condition diagnosis techniques (4) Production control, Program Evaluation and Review Technique (PERT), Quality Control using QC 7 tolls, Total Productive Management (TPM), Productivity and equipment maintenance, 5S activity (5) 3R(Reuse, Reduce, Recycle), Economy aspects of recycling, Support to private company for 3R, Reclaimer of scrap metal, Separation and collection of waste</p>	<p>IMPLEMENTING PARTNER</p>	<p>Kitakyushu International Techno-cooperative Association (KITA)</p>
	<p>JICA CENTER</p>	<p>JICA Kyushu</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p>REMARKS</p>	

Target Countries: 10 countries receiving ODA out of 13 EANET member countries

3 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 To develop the ability of mid-level engineers who are involved in EANET activities in each countries, in order to improve each countries' abilities to monitor and evaluate the current situation of damage by acid deposition, reduce the pollutants caused for acid rain.</p> <p>【Outputs】 (1) To analyze damage and countermeasures of acid deposition in each countries (2) To understand Japan's history, experiences, current situation and countermeasures in this field (3) To improve the technique and accuracy of monitoring through practical trainings (4) To make action plans that answer to each countries' challenges</p>	<p>【Target Organizations】 Organizations engaging in the operation of the Acid Deposition Monitoring Network in each countries in East Asia (EANET)</p> <p>【Target Group】 <Position> An engineering official or researcher engaged in the issue of acid deposition or air pollution and also related to EANET activities. <Experience> Experience in the relevant field: have more than 3 years' experience in the field of environmental management <Others> Educational Background: be equal or surpassing to a graduate of university</p>	
CONTENTS	PROGRAM PERIOD	Oct.5.2008~Dec.20.2008
<p>Output(1) To present country reports and discuss current situation and problems in each countries.</p> <p>Output(2) • To study the role of central government, local government and business enterprises and their countermeasures, development of legal systems. • To conduct field research at smoke generation facilities, smoke treatment facilities and air environment observation facilities.</p> <p>Output(3) • To learn skills of monitoring on wet and dry deposition, monitoring on soil, vegetation and inland aquatic environment, monitoring on air pollutant. • Exercise of quality management and quality control • Transportation of air pollutants and generation source inventory.</p> <p>Output(4) • To review the training • To formulate an action plan for solving problems analysed at the beginning. • To discuss for the regional cooperation in East Asia</p>	IMPLEMENTING PARTNER	Hyogo Environmental Advancement Association
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS	The result of this training course is highly evaluated for capacity-building of participating countries at the EANET governmental conference.

Capacity Development for Adaptation to Climate Change –Climate Modeling and Analysis アジア地域 気候変動への適応にかかる能力開発 –気候変動予測解析		R/F  0884141
Target Countries : Bangladesh,Thailand,Vietnum,Indonesia,Philippines,Laos,Pakistan		Environmental Management–Global Warming 7 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】</p> <ul style="list-style-type: none"> •to develop a capacity for adaptation to climate change,particularly forecast and impact assessment •in the first two years: be focused on climate change forecast where a technique of climate modeling based on the 'Earth Simulator' and a downscaling method will be learned •in the last year:impact assessment by using the climate change forecast and 	<p>【Target Organizations】 University of Technology and Engineering ,Meteorological Inatitute</p> <p>【Target Group】 Meteorological Reseachers in charge of climate change model ilng</p>	
CONTENTS	PROGRAM PERIOD	Oct.27.2008～Nov.22.2008
<p>(1)Lectures (a)Adaptation policy in Japan (b)Basic concept of Climate Change Model (c) and other related lectures</p> <p>(2)Exercise (a)Data analysis of Climate Change Model (b)Data modeling of Climate Change (c) and other related research</p>	IMPLEMENTING PARTNER	Meteorological Research Institute
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2008～2010
	REMARKS	Applicants are expected to nominate from same organization and/or person each year(3years) as far as possible

Waste Management for Promoting Recycling-oriented Societies in Central and South America 中南米地域 循環型社会形成促進のための廃棄物総合管理		0884146
Target Countries: BV, CR, DN, EL, GU, HD, MX, NC, PM, PG, PE, VE, CB		Environmental Management—Urban Solid Wastes 16 participants / Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Comprehensive master or related action plan on SWM will be planned then accordingly, the SWM system shall be improved. Thus, current problems/ challenges in the said field will be solved and recyclable society is further promoted in Central and South America.</p> <p>【Outputs】 1) To understand the present system and the characteristics of SWM administration to compare with their own and to extract hints for improvement 2) To understand various techniques and measures in waste treatment and recycling 3) To learn methods of environmental awareness raising through the experience of case study in waste management 4) To make and report Action Plans for improvement of SWM system in each country/ local administration including role or responsibility of participants themselves</p>	<p>【Target Organizations】 Central and local governments who are facing the solid waste problem in Central and South America. Local government officials are rather encouraged to participate in.</p>	
CONTENTS	PROGRAM PERIOD	Jun.30.2008~Aug.8.2008
<p>(1)-Recognition of conditions and/or problems in waste generation -Laws, regulations and plans in waste management and treatment (National and/or local administrations) -The 3R Policy (The 3R initiative) in Japan -Conditions of solid waste collection and transportation -International Laws such as PRTR, etc. (2)-Waste Treatment Technologies -Site visit of Reduce, Reuse and Recycle, and recognition as "resources" -Hazardous waste treatment -The concepts of Eco-town and Recycle business (3)-Strategic approach and Tool making for public awareness raising -Public awareness raising for Environmental protection at households -Environmental education and learning at school -Voluntary environmental protection mind at enterprises -Citizen groups activities -Role of mass medias and support systems by Government, etc. (4)-Making and Presentations on Waste management Masterplans and /or Action Plans</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2008~2008
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 The participants are expected to improve/acquire the capacity to formulate and execute the policy and regulations in the field of air and water pollution control.</p> <p>【Outputs】 (1) to identify environmental problems of participating countries and obtain hints for the improvement of the situation (2) to learn from the experience of Osaka and other cities in Japan about air/water pollution and countermeasures thereof (3) to obtain applicable knowledge on environmental communication (4) to produce Action Plan while in Japan and explain it to stakeholders in respective countries after returning</p>	<p>【Target Organizations】 National/Local Governmental Organization engaged in Environmental Administration</p> <p>【Target Group】 Administrative Engineers working in National/Local Government Organizations</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Jan.12.2009~Mar.14.2009</p>
<p>(1) •in preparation, participants are expected to write Country Report on the present situation and problems •At the Presentation of Country Report, through information exchange and discussion, participants obtain hints for improvement</p> <p>(2) •through lectures, practices and observation, participants gain knowledge on environmental management systematically, from identification, analysis, planning through guidance</p> <p>(3) •participants learn various methods of communication such as information disclosure, cooperation with stake holders, environmental education etc.</p> <p>(4) •participants are to discuss countermeasures to pollution problems of each country with co-participants and Japanese lecturers and produce an Action Plan as fruits of this program,</p>	<p>IMPLEMENTING PARTNER</p>	<p>Global Environment Centre Foundation</p>
	<p>JICA CENTER</p>	<p>JICA Osaka</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p style="text-align: center;">REMARKS</p>	

Target Countries: Latin American Countries

15 participants ★ /

Spanish

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 To be able to set the plan and goal in order to utilize Cleaner Production method in the production process of industrial material in order to solve the environmental problem, caused by industrialization in developing countries</p> <p>【Outputs】 (1) To observe the real state of Cleaner Production in Japan and to learn the method of executing Cleaner Production (2) To learn the basic technologies of engineering for process industries (3) To learn how to implement effective maintenance management and to acquire the useful technologies for it</p>	<p>【Target Organizations】 central or national organization of industry, public or private consultant company, research institute of related areas</p> <p>【Target Group】 Managers or engineers in the field of process industries such as chemical, petroleum refinery, iron and steel, food and ceramic plant</p>	
CONTENTS	PROGRAM PERIOD	Feb.4.2008～May.22.2008
<p>(1) Recent situation of global environment, Cleaner Production, TPM, 5S, Kaizen Activity, New QC Seven Tools, PCM, Plant Visit (2) Selection of Equipment, Selection of Motors, Selection of Materials, Corrosion and Protection, Sequence Control, Process Control, Plant Visit (3) Maintenance Management, Maintenance in Actual Plant, Visual Maintenance Management, Diagnosis Technique Plant Visit (4) Orientation of training course, instruction of making action plan, instruction of presentation, presentation of action plan (5) Report to JICA the progress of knowledge/skills sharing among the respective organization.</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008～2010
	REMARKS	This seminar will be implemented twice for JFY 2008. The second one is scheduled from Feb.4.2009 to May.22.2009 in the same content. (The term of this training course is not yet determined.)

Target Countries: Project staff in charge of the ODA loan project


12 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Capacity building for making project design documents ("PDD") of ODA loan project towards implementation of the CDM.</p> <p>【Outputs】 (1) To deepen understandings on causes and bad effects of climate change issues and measures taken under the international society. (2) To deepen understandings on the framework and rules of CDM (3) To acquire knowledge of environmentally friendly technologies, including for the energy conservation and introduction of renewable energies (4) To develop understandings on roles of developing countries and enhancement of implementation capacity in the context of CDM</p>	<p>【Target Organizations/Target Group】 Organizations in charge of the following ODA loan projects (2 from each project); ○Indonesia: "Semarang Power Plant Rehabilitation and Gasification Project," "Muara Karang Gas Power Plant Project," "Asahan No.3 Hydroelectric Power Plant Construction Project," "Peusangan Hydroelectric Power Plant Construction Project" ○Tunisia: "Photovoltaic Rural Electrification and Water Supply Project" ○Kenya: Sondu-Miriu Hydropower Project Sang'oro Power Plant</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Jan. 12. 2009~Jan. 31. 2009</p>
<p>〈Preparatory Phase〉 Formulation of draft PDD. 〈Phase in Japan〉 1) Overview of the UNFCCC and the Kyoto Protocol, Fourth Assessment Report of the Intergovernmental Panel on Climate Change ("IPCC"). 2) Basic concepts of CDM and its work flow. Each role of stakeholders such as project participants, validators, credit buyers and sellers under CDM. Arguments relating to CDM and recent movements of CDM market activities. 3) Efforts being made by Japanese industries and citizens to reduce consumption of energies and resources, etc. Visiting sites (plants, etc) where efforts for the energy/resource conservation is actually taking place 4) Presentation of policies in participants' countries to tackle climate change and roles participants are playing in implementing such policies. Preparation, formulation, presentation and finalization of PDD. To review and modify PDD</p>	<p style="text-align: center;">IMPLEMENTING PARTNER</p>	<p>·</p>
	<p style="text-align: center;">JICA CENTER</p>	<p>JICA Osaka</p>
	<p style="text-align: center;">COOPERATION PERIOD</p>	<p>2008~2008</p>
	<p style="text-align: center;">REMARKS</p>	

Target Countries: Southeast European and CIS countries

7 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] The objective is to enhance the capabilities for efficient formulation of CDM/JIB projects.</p> <p>To reach the objective, participants are expected to achieve the following: (1) To understand the overview of the UNFIT and the Kyoto Protocol, including the Kyoto Mechanisms such as CDM/JIB (2) To understand effective measures to promote CDM/JIB (3) To acquire skills to develop CDM/JIB projects (4) To create and strengthen a network among participating countries, as well as with major stakeholders in Japan (5) To elaborate a report on plan of actions that would be implemented after returning home, in view of prioritized needs of each country</p>	<p>【Target Organizations】 1) National governmental offices in charge of CDM/JIB 2) Relevant organizations dealing with CDM/JIB 3) Person from DNA (Designated National Authorities) is highly desirable.</p> <p>【Target Group】 1) Administrative officers in charge of CDM/JIB issue in national governmental offices 2) Staff of relevant organizations supporting its national government 3) University graduates or equivalent qualification</p>	
CONTENTS	PROGRAM PERIOD	Aug. 14, 2008 ~ Sep. 4, 2008
<p>Preparatory phase: – Participants will make a report on the current situation of CDM/JIB in their country.</p> <p>Program in Japan: – The program in Japan consists of the following topics: 1) Lecture on the transition of efforts for solving global warming issue, the role and mechanism of CDM/JIB, and the policy on CDM/JIB in Japan 2) Lecture on the process of formulation and the way of proposition for CDM/JIB projects 3) Exercise on drafting the projects of PD. and CDM 4) Visiting the government-affiliated agency and the private company 5) Considering what should be focused on in each country, throughout the discussion on draft of action plan made by participants based on the lectures and exercises</p> <p>Development phase: – The draft of the action plans made during the program in Japan should be shared in the organizations of participants and should be elaborated as feasible action plans. – Six months after leaving Japan, participants will report the progress of the final action plans to ICA.</p>	IMPLEMENTING PARTNER	Overseas Environmental Cooperation Center, Japan
	JICA CENTER	JICA Tsukuba
	COOPERATION PERIOD	2007~2009
	REMARKS	

Waste Effluent Pollution Control Caused by Mining and Manufacturing Industries for Central and South America 中南米地域 鉱工業による廃水汚染対策		R/F  0884246
Target Countries: Central and South America		Environmental Management—Water Pollution 12 participants / Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>This course is designed for participating countries to recognize the negative impacts of hazardous substances on environments and human bodies, and propose effective measures to reduce or prevent the environmental disruption or deterioration of environment caused by these substances. These objectives will be achieved through the following outputs;</p> <p>(1) Recognize potential or tangible deep risks to the environment, soil or lives caused by hazardous chemical substances.</p> <p>(2) Moreover, to study past experience of environmental problems caused by heavy metals such as chromium, organic mercury, and cadmium, or asbestos and dioxin as hazardous chemical substances.</p> <p>(3) Furthermore, participants shall study how to reduce hazardous substances into the environment, or learn the outline of cleaner production systems and practical techniques.</p>	<p>【Target Organizations】 Some ministries related to heavy industries, or basic industries integrated on petrochemistry, chemistry, mining, medicine, leather, metal finishing etc.....</p> <p>【Target Group】 Technologists on the administrative level • Individuals with more than 5 years vocational experiences in charge of hazardous chemical substances treatment (in enterprises, public organizations, etc.) • Individuals with official requests, majoring in chemistry, between 30 and 40 years old</p>	
CONTENTS	PROGRAM PERIOD	Under Planning
<p>〈Preparatory Phase in participants' home countries〉 Formulation of country reports by team of 3 members in each country. 〈Core phase in Japan〉 Participants will learn following items through lectures, observations and discussion</p> <p>① Generating mechanism, countermeasures and compensation issue of pollution-related diseases (based on Japanese experience)</p> <p>② Effect of hazardous substances on human body</p> <p>③ Overview of pollution due to hazardous substances</p> <p>④ Laws and regulations for environmental management</p> <p>⑤ Environmental measures by local governments</p> <p>⑥ Environmental protection measures and technologies in chemical industries</p> <p>⑦ Cleaner production technologies</p> <p>⑧ Sharing the problems, draft Action Plan presentation and discussion</p> <p>〈Finalization Phase in participants' home countries〉 Sharing and developing Action Plan, Report to JICA regional office</p>	IMPLEMENTING PARTNER	Global Environment Center Foundation
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2007~2009
	REMARKS	