

17. Environmental Management

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><Objective> Government officers and engineers in charge of waste management will gain capacity to formulate basic policy for proper Solid Waste Management (SWM) and Environmental Education (EE).</p> <p><Outputs> 1) To clarify the issues and causes of solid waste management in own countries. 2) To understand the historical process of environmental policy and waste management system in Japan. 3) To understand the techniques and measures adopted 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 propose basic policy towards proper waste management in own countries.</p>	This program is designed for officers and engineers relating to waste management or environmental education in central or local government.	
<p>CONTENTS</p> <p>Participants will learn followings through lectures, site visits, and practices;</p> <p>1) Issue analysis-workshop and interim discussion 2) Countermeasure for environment in Kitakyushu city •Solid waste management administration and environment impact assessment 3) Flow of general waste •Compost from kitchen garbage •Incineration and hazardous waste treatment 4) Regulation and structure of final disposal site •Good example of final disposal site in Samoa 5) Environmental education administration in Kitakyushu •NGO activity in local area 6) Project Cycle Management •Action Plan</p>	<p>PROGRAM PERIOD</p> <p>Jun / 20 / 2010 ~ Sep / 11 / 2010</p>	
	<p>IMPLEMENTING PARTNER</p> <p>Kitakyushu International Technocooperative Association (KITA)</p>	
	<p>JICA CENTER</p> <p>JICA Kyushu</p>	
	<p>COOPERATION PERIOD</p> <p>2008~2010</p>	
	<p>REMARKS and WEBSITE</p> <p>The course will be conducted twice in Japan fiscal year 2010: Jun. 2010 - Sep. 2010 and Feb. 2011 - May .2011.</p>	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Course Objective】Adaptive watershed management methods will be systematically shared among organizations operating flood control and ecosystem conservation for watershed management by having midlevel working and senior administrative officers from the target organizations (a three-year objective).</p> <p>【Expected Module Outputs】1. First and Second year program: (1) To be able to explain the effects of climate change on the watersheds of their respective areas and discuss the possibility of introducing adaptive watershed management method, (2) To be able to analyze current flood risks and the conditions/patterns of ecosystem destruction in the watersheds of their respective areas and explain tasks related to area management methods and ongoing adaptive measures, (3) To formulate the Action Plan (draft) for an adaptive watershed management project in the target country. 2. Third year program: In addition to the Outputs (1) to (3), (4) To formulate the Action Plan of necessary method for adaptive management planning applicable to the watersheds in the target country.</p>	<p>【Target Organizations】Project implementation organizations engaging in flood control or ecosystem conservation in watershed areas</p> <p>【Target Group】1. First and second year: Midlevel working officers in charge of flood control and ecosystem conservation projects 2. Third year: Senior administrative officers of organizations related to flood control and ecosystem conservation and academic experts involved in management plans for individual watershed. It is strongly recommended for the same organizations related to flood control and ecosystem conservation to nominate an applicant every year.</p>	
<p>CONTENTS</p> <p>【Preliminary Phase in home country】Submission of Report (Present issues) 【Core Phase in Japan】Following lectures, practical exercises, observations and discussions are provided. 1. First and second year program: (1) Global environmental change/Kyoto Protocol, Post-Kyoto Protocol framework, Fundamentals of landscape ecology, Dams and watershed control (2) Conservation method of ecosystem, Flood plain management and Resident activities, Flood plain management methods, biodiversity and flood frequency, River flood control and biodiversity conservation, Basic knowledge and operation of GIS, Flood plain management methods using GIS, Protection of bio-diversity and small mammals (3) Workshop: Issue analysis, Capacity development, Consensus building, Cooperation with NGOs 2. Third year program: In addition to the Outputs (1) to (3), (4) D: Issues on the Action Plan (draft) 【Finalization Phase in home country】 Submission of the Final Report within six months after returning home countries.</p>	<p>PROGRAM PERIOD</p> <p>Aug / 15 / 2010 ~ Oct / 16 / 2010</p>	
	<p>IMPLEMENTING PARTNER</p> <p>Hokkaido University, Hokkaido Development Bureau</p>	
	<p>JICA CENTER</p> <p>JICA Obihiro</p>	
	<p>COOPERATION PERIOD</p> <p>2009~2011</p>	
	<p>REMARKS and WEBSITE</p> <p>Since the program objective is designed to be attained through 3 years, the duration of each year's program differs as follows: -First and Second year: 60 days -Third year: 21 days FY 2010 is the second year of the Program.</p>	

Environmental Impact Assessment in ODA Projects (EIA as a Tool for Sustainable Development) ODAにおける環境影響評価(持続可能な開発のための環境アセスメント研修)		PITD Trainers 1080936 Sector: Environmental Management Sub-Sector: Environmental Administration	
		18 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] This program is designed for examining authorities of Environment Impact Assessment (EIA) and implementing bodies of large-scale development projects which require EIA in National / Local Government or other relevant organizations.</p> <p>[Expected Result] (1) To be able to explain the basic concepts of EIA, necessary procedures and the difference in the EIA systems between Japan and their own country and to be able to understand the efforts of international aid agencies for environmental considerations and to explain the requirements expected in the development projects (2) To be able to explain necessary points of the EIA examination and necessary technical methods to conduct EIA (3) To be able to explain a process to conduct EIA smoothly and communication methods with residents etc.</p>	<p>[Target Organization] Examining authorities of Environment Impact Assessment (EIA) and implementing bodies of large-scale development projects which require EIA in National / Local Government or other relevant organizations</p> <p>[Target Group] (1) To be technical administrative officers in charge of EIA and/or planning and implementation of large-scale development projects and ODA projects (2) To have basic knowledge and more than three years of working experience in EIA (3) To be under forty-five (45) years of age (in principle) and to be university graduates or possess the equivalent background in the field</p>		
CONTENTS	PROGRAM PERIOD	Jun / 27 / 2010 ~ Jul / 24 / 2010	
<p>[Preliminary Phase] Submission of Inception Report and Questionnaire</p> <p>[Core Phase] Purpose and concept of EIA and the EIA system in Japanese situation of the EIA system in their own country Examination system of EIA in Japan, key points of examination (how to check EIA report), case studies Process and communication methods required for EIA etc.</p> <p>[Finalization Phase] Development of a plan to conduct EIA based on specific development projects (exercise), Discussion on the improvements of the above plan and points of the examination, Discussions on the improvement of the EIA system in their own countries</p>	IMPLEMENTING PARTNER	OVERSEAS ENVIRONMENTAL COOPERATION CENTER, JAPAN	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Measures Against Urban Environmental Problems 都市生活型の環境問題		PITD Solution 1080215 Sector: Environmental Management Sub-Sector: Environmental Administration	
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] Plan to cope with urban environmental problems is officially formulated in the participant's belonging organization based on the Action Plan proposed in Japan</p> <p>[Outputs] 1.Understand water supply and sewage system in urban area 2.Understand control and monitoring system of air pollution in urban area 3.Understand waste management and recycling in urban area 4.Learn advanced approaches/methods of the environmental education 5.Propose an Action Plan to cope with urban environmental problems in the participant's respective countries</p>	<p>[Target Organizations] Central or Local Government in charge of urban environmental affairs (Preferably local government)</p> <p>[Target Group] 1.Administrative officers in charge of urban environmental affairs (such as air and water pollution, sewage disposal, waste management etc.) at central/local government (preferably local government) 2.Individuals with at least 3 years of practical work experience</p>		
CONTENTS	PROGRAM PERIOD	Jan / 18 / 2011 ~ Mar / 2 / 2011	
<p>[Preparatory phase] Preparation and submission of Country Report</p> <p>[Phase in Japan] 1.Water supply and sewage system: Water pollution control, Groundwater pollution control & soil pollution control, Water works in Sapporo city, Sewage treatment plant, Water quality control laboratory 2.Control and monitoring system of air pollution:Air pollution controls in Sapporo city, Atmospheric environment monitoring system, Measures against hazardous chemical substances, Atmospheric environment monitoring station 3.Waste management and recycling: Waste disposal administration of Sapporo city, Collection and transport of waste material, Intermediate treatment and recycling technology, Incineration plant, Final disposal landfill site, Treatment of medical waste 4.Advanced approaches/methods of the environmental education 5.Propose an Action: PCM (Project Cycle Management) method</p> <p>[Finalization Phase] Reporting the progress of implementing "Action plan" within three (3) months</p>	IMPLEMENTING PARTNER	North Region Center, City of Sapporo	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE		

OBJECTIVE	TARGET ORGANIZATION / GROUP										
<p>[Course Objective] The local government officer (who are in charge of the areal pollution control and environmental management) shall obtain the administrative management methodology on raising awareness, implementation of the practical countermeasures against actual environmental pollution cases.</p> <p>[Expected Module Outputs] (1)Comprehension of industrial pollution problems (2) Environmental improvement, Environmental Management (3) Enhancement of Capacity on local environmental management (4) Based on the each country's situation, action plan to solve Environmental Management Problem is composed.</p>	<p>Local government official where industrial pollution (mainly, air or water quality issue) is recognized. His/her office is expected to have the control rights on the source.</p> <ul style="list-style-type: none"> •local government officers or technician of a national factory •5years or more experience in environmental protection, company advisor, pollution control & still in the similar position handling these jobs •graduate of university •be proficient in English •factory which emit pollution is located in the area in charge 										
<p>CONTENTS</p> <p>This is a practical training targeting for certain local areas with serious industrial pollution. [Preliminary Phase] Compiling Job Report [Core Phase in Japan](1)Comparing to the experience and status of Japanese pollution era, this chapter aims to promote the participants to have more consciousness upon the areal pollution (incl. medium & small scale one). Lecture but participatory discussion, analysis and presentation will be provided. (2)Review the concept of autonomous EMS. Introduce suitable EOP or CP technologies for the case studies reported by the participants. Incentives towards improvement such as ener-con, and social & economic approaches will be explained. Participants will settle feasible targets and their AP. (3)Areal environmental management will be focused. Hostile relationship among factory/company, government and local people will be wiped out and on the contrary, creates good relationship. Strategy of public participation to local environment management by each sector will be considered. (4)Composing Action Plan [Finalization Phase] Implementation of the action plan</p>	<table border="1"> <tr> <td>PROGRAM PERIOD</td> <td>Aug / 23 / 2010 ~ Oct / 7 / 2010</td> </tr> <tr> <td>IMPLEMENTING PARTNER</td> <td>International Center for Environmental Technology Transfer</td> </tr> <tr> <td>JICA CENTER</td> <td>JICA Chubu</td> </tr> <tr> <td>COOPERATION PERIOD</td> <td>2009~2011</td> </tr> <tr> <td>REMARKS and WEBSITE</td> <td>This course aims to concrete solution to improve environmental problem by training in Japan. Thus the training contains self devotive activities like documentation and presentation.</td> </tr> </table>	PROGRAM PERIOD	Aug / 23 / 2010 ~ Oct / 7 / 2010	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer	JICA CENTER	JICA Chubu	COOPERATION PERIOD	2009~2011	REMARKS and WEBSITE	This course aims to concrete solution to improve environmental problem by training in Japan. Thus the training contains self devotive activities like documentation and presentation.
PROGRAM PERIOD	Aug / 23 / 2010 ~ Oct / 7 / 2010										
IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer										
JICA CENTER	JICA Chubu										
COOPERATION PERIOD	2009~2011										
REMARKS and WEBSITE	This course aims to concrete solution to improve environmental problem by training in Japan. Thus the training contains self devotive activities like documentation and presentation.										

Target Countries: With the mega-cities with more than 1 million people

OBJECTIVE	TARGET ORGANIZATION / GROUP										
<p>Capacity of participating organization will be improved and the process of formulation of Environment Management Plan will be indicated. (Preparatory Phase in Participants' respective countries) 1) Country reports summarizing problems and issues of the organizations are facing are formulated. (Phase in Japan) 2) Priority issues of participating organization will be identified through lectures about history and case study of environmental problems in Japan/Osaka and also through discussion among participants. 3) Participants will learn the methodology of planning for both individual and integrated environment management plan. 4) Participants will learn the environment management system with PDCA cycle. 5) Draft process sheet for formulation of environment management plan will be formulated. (Finalization Phase in participants' home countries) 6) Draft process sheet will be shared and examined in participating organization.</p>	<p>Officials of the division in National/Local government with responsibility for planning and implementation of environmental policy for the mega-cities with a population of more than 1 million people. Two persons per year, totally six persons for this three year's training course from same organization</p>										
<p>CONTENTS</p> <ul style="list-style-type: none"> • Analysis and examination of the environmental problems which participating organizations are facing • Formulation of country reports • Lectures and discussion about following theme, Environmental problems (air pollution, water, solid waste) in Japan and Osaka city / social and economic factors, impact on citizens of environmental problems / various effort of gov., companies and citizens. • EMS(ISO14001), Environment Management System in Japanese enterprises • Formulation of draft process sheet • presentation and discussion about draft process sheet • Sharing and developing the draft process sheet • Report to JICA regional office about the progress of implementation of the process sheet. 	<table border="1"> <tr> <td>PROGRAM PERIOD</td> <td>May / 10 / 2010 ~ Jul / 3 / 2010</td> </tr> <tr> <td>IMPLEMENTING PARTNER</td> <td>GloTo be decided</td> </tr> <tr> <td>JICA CENTER</td> <td>JICA Osaka</td> </tr> <tr> <td>COOPERATION PERIOD</td> <td>2010~2012</td> </tr> <tr> <td>REMARKS and WEBSITE</td> <td></td> </tr> </table>	PROGRAM PERIOD	May / 10 / 2010 ~ Jul / 3 / 2010	IMPLEMENTING PARTNER	GloTo be decided	JICA CENTER	JICA Osaka	COOPERATION PERIOD	2010~2012	REMARKS and WEBSITE	
PROGRAM PERIOD	May / 10 / 2010 ~ Jul / 3 / 2010										
IMPLEMENTING PARTNER	GloTo be decided										
JICA CENTER	JICA Osaka										
COOPERATION PERIOD	2010~2012										
REMARKS and WEBSITE											

Marine Environment Protection for Senior Officials in the Maritime Authorities and Law Enforcement Authorities 海事及び法令執行機関における上級職員のための海洋環境保全		PITD Solution 1080822 Sector : Environmental Management Sub-Sector : Environmental Administration	
		8 participants / English	
OBJECTIVE [Course Objective] The issues on the effective policies for marine environment protection will be directed, and the practical measures to the issues on above field will be formulated. [Expected Module Output] (1)The present situation and activities, issues of marine environment protection in respective countries will be clarified. (2)The international framework of marine environment protection will be clarified. (3)The way of strengthening the cooperation and networking among the neighboring countries, and the applicable measures to respective countries will be clarified. (4)The present situation and activities of marine environment protection in Japan, and the applicable measures to respective countries will be clarified. (5)The action plan on how to develop and promote the effective policy of marine environment protection will be formulated.		TARGET ORGANIZATION / GROUP [Target Organizations] Coast guard or maritime authority obliged to marine pollution prevention work [Target Group] (1) Individuals in a managerial position. (2) Individuals who have more than 5 years of occupational experience in the above field.	
CONTENTS <Activity in Preliminary Phase in home country> Preparation of the County report which describes the present situation of marine environment protection in the participants' countries, and participants' detailed work and roles of their organization <Activity in Core Phase in Japan> This program consists of lectures, field work, observation tours and discussion. (1) Country report presentation and discussion. (2) International conventions relating to the marine environment protection including UNCLOS, MARPOL, OPRC, etc (3) Outline of the way of strengthening the cooperation and networking among the neighboring countries. (4) Outline of the Japan Coast Guard, Outline of the ordinance / legislation of marine environment protection, Outline of discharged oil / water analysis and oil spill combating, Off-shore and air surveillance. (5) Formulation and presentation of an action plan <Activity in Finalization Phase in home country> Share and discuss, modify the action plan in respective organizations		PROGRAM PERIOD Jan / 18 / 2011 ~ Mar / 5 / 2011	IMPLEMENTING PARTNER Japan Coast Guard Association
		JICA CENTER JICA Okinawa	COOPERATION PERIOD 2008~2010
		REMARKS and WEBSITE	

KOICA-JICA JOINT TRAINING PROGRAM 「Policy and Technology for Energy Conservation and Environmental Protection in East Asia」 日韓共同研修「東アジア環境・省エネルギー政策と技術」		PRTD Leaders 1084137 Sector : Environmental Management Sub-Sector : Environmental Administration	
Target Countries: South East Asia and East Asia		14 participants / English	
OBJECTIVE [Objective] Government administrative officers and researchers in developing countries, who are in energy conservation or environmental protection in national/local government become able to set basic policy strategies to address own problems. [Expected Results] (1)To understand the outline of energy conservation and environmental protection at national and local level in Korea and Japan, and in East Asia. (2)To observe and understand the concrete activities taken by national/local government and private companies. (3)To understand environmental education with community participation. (4)To propose "action plan" for energy conservation and sound material cycle society in own countries.		TARGET ORGANIZATION / GROUP Department which deals with Policy and Technology for Energy conservation and Environmental protection in national/local government or Institution	
CONTENTS Participants will learn followings through lectures, sitevisits, and discussions. (1) Governmental strategy for environmental protection in Japan and Korea (2) Measures taken in private enterprises for environmental protection (3) Environmental education initiated by community (4) Formulation of action plan, utilizing the program		PROGRAM PERIOD Oct / 17 / 2010 ~ Oct / 30 / 2010	IMPLEMENTING PARTNER Kitakyushu International Techno-cooperative Association (KITA)
		JICA CENTER JICA Kyushu	COOPERATION PERIOD 2008~2010
		REMARKS and WEBSITE This program is implemented jointly by JICA and KOICA, Korea International Cooperation Agency. After completing programs in Japan, participants are to take part in programs in Korea from Oct. 30, 2010 to Nov. 13, 2010.	

Target Countries : Chile

10 participants /

Spanish

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] The action plan for promoting the environmental education model which developed in the JICA technical cooperation project at each municipality will be shared in the trainee's organization.</p> <p>[Outputs] (1) Through formulation and presentation of job reports and following discussion, trainees can clarify the challenges for promoting environmental education in their areas (2) Trainees can explain the concept of ESD (Education for Sustainable Development) and current situation of ESD in Japan (3) Trainees can explain the activities related to environmental education in Nishinomiya City (4) Trainees can figure out their challenges and formulate action plans to solve them. (5) Trainees can develop their action plans after they go back and share in their organizations</p>	<p>[Target Organization] CONAMA, City Government [Target Group] those who understand and promoting outputs of JICA project in Chile from November 2007 to October 2010 "Development of Environmental Education model to Strengthen Local Capabilities"</p>	
<p>CONTENTS</p> <p>This training aims to formulate plans for introduction of environmental education through learning the case of Nishinomiya City.</p> <p>(1) To formulate and present job reports (2) The workshop for basic understanding of ESD • Lectures of current situation of ESD in Japan (3) Lectures of an environmental policy in Nishinomiya City • To visit schools for viewing the environmental learning • To visit waste disposal centers and private businesses' activities for waste reduction • Discussion with Eco-community members (4) To study a method of action plan formulation • To formulate and present action plans</p>	<p>PROGRAM PERIOD</p>	<p>Feb / 13 / 2011 ~ Mar / 5 / 2011</p>
	<p>IMPLEMENTING PARTNER</p>	<p>NPO: Learning and Ecological Activities Foundation for Children (LEAF)</p>
	<p>JICA CENTER</p>	<p>JICA Hyogo</p>
	<p>COOPERATION PERIOD</p>	<p>2009~2011</p>
	<p>REMARKS and WEBSITE</p>	<p>This Course is closely connected with on going Technical Cooperation Project in Chile.</p>

5 participants /

English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] The ability of environmental management and research for officers in central/local government and researchers in institution and university is improved.</p> <p>[Expected Results] (1) To acquire the knowledge and measures of formulating policy and planning for sustainable environment (2) To acquire the knowledge and measures for analyzing substances in water and atmosphere, and pollution in groundwater based on physical, chemical and biological aspects. (3) To acquire the knowledge and measures for process developments, designing and analysis through learning various kinds of unit processes and analysis/monitoring methods to promote environmental protection and material cycle society. (4) Training on thesis writing</p>	<p>Central/local government, research institute and university relating to environmental management and material cycle society</p>	
<p>CONTENTS</p> <p>This program is designed for administrative officers and researchers who are in charge of environmental management and sound material cycle society to strengthen their capacity through acquiring master course degree of environment engineer and environment management.</p> <p>(1) Environmental Economics, Environmental Reporting and Accounting, Environmental Policy and Administration, System of Sustainable Management, Urban Environmental Assessment and Planning, etc (2) Analysis of Toxic Chemicals in Environment, Aquatic Environment and Engineering, Remediation of Soil and Groundwater, etc (3) Environmental Preservation Engineering, Recycling Engineering, Environmental Information Technology and Computer Simulation, etc. (4) Special Study I, II</p>	<p>PROGRAM PERIOD</p>	<p>Sep / 20 / 2010 ~ Sep / 30 / 2012</p>
	<p>IMPLEMENTING PARTNER</p>	<p>The University of Kitakyushu</p>
	<p>JICA CENTER</p>	<p>JICA Kyushu</p>
	<p>COOPERATION PERIOD</p>	<p>2009~2011</p>
	<p>REMARKS and WEBSITE</p>	<p>University of Kitakyushu Faculty of Environmental Engineering website: http://www.kitakyu-u.ac.jp/env/lang.en/</p>

Air Quality Management Policy 大気保全政策		PITD Solution 1080864 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	
		10 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants are expected to contribute to the improvement of air pollution policy in their own countries by making the best use of the knowledge and technology on air quality management policy acquired in Japan. 1 to be able to explain the whole system of air quality management, 2 to be able to explain the technologies on air pollution countermeasures (stationary and mobile sources) applicable to their own countries, 3 to be able to explain the monitoring methods of various air pollutants,	<ul style="list-style-type: none"> • University graduates or holders of equivalent technical knowledge/qualification • More than three years professional experience • Technical officials in the central or local government responsible for air quality control policy 		
CONTENTS	PROGRAM PERIOD	under planning	
L:History of Japan's Countermeasures against Air Pollution L:Air Pollution Control Administration L:Outline of Air Pollution Issues L:Environmental Quality Standards and Health Effect L:Countermeasures against Hazardous Air Pollutants L: Air Pollution Control Technology and Energy Issues L: Air Pollution Control Measures by Private Enterprises (1)Power Company L: Air Pollution Control Measures by Private Enterprises (2)Steel Company O: Air Pollution Countermeasures of Small and Medium sized Enterprises O: Municipal Solid Waste Incineration Plant L/P:Techniques for Measurement of Air Pollution and Sampling O: Ambient Air Telemetry System O: Roadside Ambient Monitoring Station P:Techniques for Measurement of Air Pollution	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

KOICA-JICA JOINT TRAINING PROGRAM「Environmental Protection Technology & Management for Air Pollution Control」 日韓共同研修「大気環境保全管理」		PRTD Leaders 1084138 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	
Target Countries: South East Asia and East Asia		16 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: 30-45 years old		
CONTENTS	PROGRAM PERIOD	Aug / 28 / 2010 ~ Sep / 11 / 2010	
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 (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE	This program is implemented jointly by JICA and KOICA, Korea International Cooperatoin Agency. Participants will join programs in Korea from Aug. 15, 2010 to Aug. 28, 2010 before coming to Japan.	

Countermeasure against Automobile Pollution in Urban Area
都市における自動車公害対策

PRTD Solution 1084287
Sector : Environmental Management
Sub-Sector : Air Pollution/Acid Rain

Target Countries : All countries

9 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] Capacity of participating organization on making plans countermeasures for automobile pollution is improved.</p> <p>[Expected Results] (1)The situation reports summarizing problems and issues of countermeasures against automobile pollution are formulated and based on the situation reports and discussions, participants are able to analyze problems and issues of countermeasures against automobile pollution. (2)Participants are able to explain about countermeasures against automobile pollution in the case of Japan.(3)Participants are able to explain how to measure, monitor and control air pollutant exhausted by automobile, (4)Participants are able to explain about city planning and education programs which are effective in prevention of automobile pollution. (5)Draft training plans for dissemination of applicable knowledge and skills about countermeasures against automobile pollution are formulated, shared and examined in their respective organization.</p>	<p><Target Organization> Division in national/local government which in charge of policy planning on countermeasure against automobile pollution in urban area</p> <p><Target Group> 1) Administrative/Technical officers in charge of policy planning on countermeasure against automobile pollution in urban area 2) Experience in the relevant field: have more than 3 year's experience</p>	
<p>CONTENTS</p> <p>This training is designed for deepen understandings of automobile emissions and for strengthening capacity on making plans countermeasures for automobile pollution.</p> <p>(1)Formulation of the situation reports summarizing problems and issues of countermeasures against automobile pollution in participants' respective countries •Presentation/discussion of situation reports</p> <p>(2)•Lectures on overview/history of countermeasures against automobile pollution based on the case study from Osaka area •Lectures on legal structure related to automobile pollution</p> <p>(3)• Practical work on measurement of auto emission, figuring out the amount of emission•Site visit to facilities.</p> <p>(4)•Lectures on City Planning aiming at Environmentally Sustainable Transport</p> <p>(5)•Formulation of draft training plans for dissemination of applicable knowledge and skills about countermeasures against automobile pollution•Finalization of draft training plans.</p>	<p>PROGRAM PERIOD</p>	<p>Sep / 20 / 2010 ~ Nov / 13 / 2010</p>
	<p>IMPLEMENTING PARTNER</p>	<p>Global Environment Centre Foundation (GEC) http://gec.jp/</p>
	<p>JICA CENTER</p>	<p>JICA Osaka</p>
	<p>COOPERATION PERIOD</p>	<p>2009~2011</p>
	<p>REMARKS and WEBSITE</p>	<p>This program is aiming at strengthening capacity of organization as well as individuals through 3 year's program. It is desirable that participants are selected from the same organization through 3 years.</p>

The Acid Deposition Monitoring Network in East Asia
東アジア酸性雨モニタリングネットワーク強化

PRTD Solution 1084078
Sector : Environmental Management
Sub-Sector : Air Pollution/Acid Rain

Target Countries : EANET cooperative countries in East and South East Asia

6 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objectives] To develop the ability of mid-level engineers who are involved in EANET(Acid Deposition Monitoring Network in East Asia) 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] •An engineering official or researcher engaged in the issue of acid deposition or air pollution and also related to EANET activities. •Experience : have more than 3 years' experience in the field of acid deposition monitoring •Educational Background: be equal or surpassing to a graduate of university</p>	
<p>CONTENTS</p> <p>1. To present country reports and discuss current situation and problems in each countries.</p> <p>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>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>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>	<p>PROGRAM PERIOD</p>	<p>Oct / 17 / 2010 ~ Dec / 18 / 2010</p>
	<p>IMPLEMENTING PARTNER</p>	<p>Hyogo Environmental Advancement Association</p>
	<p>JICA CENTER</p>	<p>JICA Hyogo</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p>REMARKS and WEBSITE</p>	<p>The result of this training course is highly evaluated for capacity-building of participating countries at the EANET governmental conference.</p>

Air Pollution Source Management 大気汚染源管理		PRTD Solution 1084286 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	
Target Countries : Asia, Middle East and Latin America		8 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] Policy related to air pollution source management at own organization is formulated for promoting air pollution management.</p> <p>[Expected Results] (1) Participants are able to explain the overview of the administrative system for air pollution prevention. (2) Participants are able to explain the overview of monitoring and analysis method implemented. (3) Participants are able to explain the overview of technology for air pollution prevention to visit government of local government and private companies. (4) Participants are able to formulate action plan for introducing of air pollution source management. (5) After returning, the proposal (Action plan) created by participants is shared in the organization and discussed towards the realization and implementation</p>	Environmental management department at central/local government		
CONTENTS	PROGRAM PERIOD	Oct / 17 / 2010 ~ Dec / 18 / 2010	
<p>Participants will learn followings through lectures, site visits and observations;</p> <p>(1) History of industrial pollution and health effects of air pollution • Law system of air pollution prevention, Plant Inspection system in Kitakyushu city • Anti-air pollution measures for automobile exhaust gas • Environmental education</p> <p>(2) Air pollution monitoring system in Kitakyushu city • Monitoring and analysis of air pollution substance • Measurement of automobile exhaust gas</p> <p>(3) Technology of dust collection and control of Sulfur and Nitrogen oxides • Visit to steel company and thermal power station</p> <p>(4) Lecture of Project cycle management, Instruction for creating Action plan and Issue analysis sheet</p> <p>(5) Presentation of proposal (Action plan) • Presentation for the final report</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE		

Water Environmental Monitoring 水環境モニタリング		PITD Leaders 1080962 Sector : Environmental Management Sub-Sector : Water Pollution	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] This program is designed for leading technical officers and laboratory staffs in the field of water quality monitoring to enhance technical capabilities and helping them develop action plans for improving their operations.</p> <p>[Expected Results] 1. To be able to explain relations between various social activities and water pollution, spreading mechanism of the pollutants in the water environment and their effect on ecosystems 2. To be able to explain the water quality management system based on water quality monitoring 3. To gain essential and most relevant skills and methods to water quality monitoring and data processing and to make practice report 4. To analyze the challenges on water quality monitoring done in respective countries and to formulate an action plan</p>	<p>[Target Organization] This program is offered to central/local government and public institutions in charge of water quality monitoring</p> <p>[Target Group] (1) be technical officers or laboratory staffs in the field of water quality monitoring in central/local government or public institutions, (2) be university graduates (science or engineering) or have the equivalent academic background, and have enough knowledge on water environment, (3) not be less than twenty five(25) and not be more than thirty five (35) years of age, (4) have sufficient command of discussing and making presentation in English</p>		
CONTENTS	PROGRAM PERIOD	Sep / 5 / 2010 ~ Oct / 23 / 2010	
<p>[Preliminary Phase] Formulation of the Court Report [Core Phase] L: History of Water Pollution Problem in Japan L: Mechanism of Water Pollution L/V: Water Pollution and Its Effect L: Method of Sampling P: Measurement of Flow Rate and Velocity P: Analysis of Poisonous Organic Compound / Agrichemicals (HPLC) P: Analysis of Volatile Organic Compound (Headspace/GC/ECD) P: Analysis of Organic Compound(COD/TOC) P: Analysis of Microorganism P: Analysis of Benthic Environment P: Analysis of Poisonous Metal (AAS) P: Method of Analytical Data Processing [Finalization Phase] Action Plan introduction (presentation or discussion with related persons)</p>	IMPLEMENTING PARTNER	National Environmental Research and Training Institute	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Operation and Maintenance of Sewerage Systems 下水道維持管理		PITD Trainers 1080762 Sector : Environmental Management Sub-Sector : Water Pollution	
		7 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] Every participant shares and implements its action plan, and then reports progress to JICA</p> <p>[Expected Outputs] (1) To understand sewerage systems in Japan (2) To understand and experience planning and designing of sewerage systems to improve those in participant's country (3) To understand and experience operation and maintenance of sewerage systems to improve those in participant's country (4) To understand and experience industrial wastewater and pre-treatment to improve those in participant's country (5) To propose "Action Plan" to clarify how to improve participant's job and organization based on Modules 1)~4)</p>	<p>[Organizations] Sewerage works entities (can be governmental/ semi-governmental/ corporate)</p> <p>[Personal Qualifications] <Current Duties> Senior sewerage works engineers <Experience> More than five (5) years in relevant field <Educational background> Engineering, Sanitation <Age> In principle, Under 40 years old</p>		
CONTENTS	PROGRAM PERIOD	Sep / 7 / 2010 ~ Nov / 6 / 2010	
<p>[Preparatory Phase] Each participant prepares Job report to identify its issues [Core Phase] (1) Current situation and rules & regulations of sewerage system in Japan, sewerage system in Sapporo, master plan of sewerage systems (2) Sewer network planning, planning and construction of treatment plant, principal of biological treatment, appropriate selection of treatment method (3) Construction of pipe, operation and maintenance of pipe, operation and maintenance of water treatment plant, practice of water quality inspection, efficient use of sludge (4) Water quality regulations, water quality control, wastewater treatment plant (5) Job report presentation, discussions, guidance for action plan proposal, action plan presentation [Finalization Phase] With in 6 months after completion of the course, every participant is requested to share its knowledge and experience in Japan at respective organization, then reports Action Plan progress to JICA</p>	IMPLEMENTING PARTNER	Construction Bureau, City of Sapporo	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Sewerage Technology for Wastewater Control and Urban Drainage 下水道維持管理・都市排水		PITD Trainers 1080105 Sector : Environmental Management Sub-Sector : Water Pollution	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] Based on the Action Plan proposed by respective participant, the gained knowledge or skills shall be shared in his/her organization.</p> <p>[Expected Results] (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 [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</p>		
CONTENTS	PROGRAM PERIOD	Aug / 23 / 2010 ~ Nov / 6 / 2010	
<p>[Preliminary phase in Participant's home country] Country Report is formulated to clarify the present situation and problems in the sewerage system of the participating country. [Program in Japan] (1) General knowledge on the regulation and situation of sewerage system in Japan especially in Osaka.(Lecture) (2) Planning, designing and constructing of Sewerage facilities.(Lecture, Observation) (3) Maintenance of sewerage systems.(Lecture, Observation) (4) Sewerage administration and international cooperation.(Lecture) (5) Preparation/Presentation of Action Plan. [Finalization Phase in Participant's home country] - Report to JICA on the progress of knowledge/skills sharing among the relevant engineers in the participating organization.</p>	IMPLEMENTING PARTNER	Public Works Bureau of Osaka City Government and Osaka City Sewerage Engineering Association	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

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		PITD Trainers Sector : Environmental Management Sub-Sector : Water Pollution	1080103
		9 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objectives] Based on the Action Plan proposed by respective participant, the knowledge or skills shall be shared his/her organization.</p> <p>[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</p>	<p>[Target Organizations] National/Local authority in charge of sewerage system operation and maintenance.</p>		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Mar / 12 / 2011	
<p>(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 and 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.</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

The Integrated Water Management of Coastal Seas / Bays and Catchment Areas 沿岸域・内湾およびその集水域における統合的水環境管理		PITD Solution Sector : Environmental Management Sub-Sector : Water Pollution	1080997
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective] A plan is drawn out to improve the policy for solution to the water pollution in the area managed by the governmental organization which participants belong to.</p> <p>[Output] 1. The water condition and issue of the coastal sea/bay area in own country are defined through preparing and presenting the Job Report. 2. The mechanism of the water pollution and the technique of environmental protection in the coastal sea/bay is comprehended by combining with the own issue. 3. The advanced law and policy for the environmental protection in the coastal sea/bay is comprehended and applicated them to their own social system. 4. Develop practicable action plan 5. As a result of the discussion and consideration about reflection of the action plan to the policy of own section in the organization, progress report is submitted about three months after return to the country.</p>	<p>[Target Organization] Department which is 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 • Job experience: more than 3 years in the field • Age: from 26 to 44</p>		
CONTENTS	PROGRAM PERIOD	Sep / 5 / 2010 ~ Oct / 30 / 2010	
<p>• Preparing a Job Report and considering in the organization • General view of water pollution and provision in Hyogo/Japan • A phenomenon of water pollution and its mechanism • Model analysis of water pollution • Field survey method and measurement for coastal seas/bays and catchment areas • Ecosystem and material cycle • Water environmental management and restoration technology • Environment law and policy • Integrated water management • Midterm discussion and evaluation • Individual advice for the draft • Preparing final action plan and presentation • Monitoring the action plan progress • Drawing the progress report and submission</p>	IMPLEMENTING PARTNER	International Center for Environmental Management of Enclosed Coastal Seas (EMECS)	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Domestic Wastewater Treatment Techniques 生活排水対策		PITD Solution 1080006 Sector : Environmental Management Sub-Sector : Water Pollution	
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p><Objective> Effective policy targeting waste water management is formulated by corresponding organizations in central / local government.</p> <p><Output> ① Being able to explain measures taken by central / local government in Japan regarding waste water management. ② Being able to propose effective measures based on basic idea of waste water management systems and techniques. ③ Being able to explain and apply how to measure pollution ④ Being able to explain effective treatment measures against pollution from viewpoint of water recycle and water circulation ⑤ Action plan is formulated, and its implementation is reported through final report.</p>	<p>This program is offered to technical staffs dealing with waterworks and sewerage in central/local government.</p>		
CONTENTS	PROGRAM PERIOD	Aug / 22 / 2010 ~ Dec / 11 / 2010	
<p>Participants will learn followings through lectures, site visits, practices and discussions:</p> <p>(1) Wastewater treatment systems in Japan (2) Sewerage treatment systems (3) Monitoring and management of pollution (4) Water treatment techniques (5) Presentation of Action Plan</p>	IMPLEMENTING PARTNER	KITAKYUSHU INTERNATIONAL TECHNO-COOPERATIVE ASSOCIATION	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Industrial Wastewater Treatment Technique 産業廃水処理技術		PITD Solution 1080815 Sector : Environmental Management Sub-Sector : 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] (1) To understand the importance of wastewater treatment and the water pollution (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 formulate action plans, utilizing contents of the program.</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 / 19 / 2010 ~ Nov / 27 / 2010	
<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 after leaving Japan, based on the follow-up questionnaire to be provided during the phase in Japan.</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Sewage Treatment Technique for Central America and the Caribbeans 中米・カリブ地域「生活排水処理」		PRTD Trainers 1084018 Sector : Environmental Management Sub-Sector : Water Pollution	
Target Countries: Central America and the Caribbeans		12 participants / Spanish	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Course Objective] Participants will gain necessary knowledge and skills to plan and implement a sewage treatment system suited to their countries, and share the knowledge within their respective countries.</p> <p>[Expected Outputs] (1) To understand the issues of the sewage treatment in their respective countries. (2) To understand the importance of sewage treatment in relation to the preservation of water-environment and living-environment. (3) To gain basic knowledge on sewage treatment planning. (4) To gain basic knowledge on sewage treatment techniques. (5) To gain basic knowledge on maintenance and management techniques of sewage treatment facilities. (6) To plan dissemination lectures/workshops based on the training course and implement them within their respective organizations.</p>	<p>[Target Organization] • Central/local government and public organizations in charge of planning, operation, maintenance and management of sewage treatment facilities.</p> <p>[Target Group] • Technical officials in charge of sewage treatment at central/local government or public organizations • 3 years of experience in the field concerned • The belonging organization owns a sewage treatment facility, or is in charge of its plan, operation and maintenance</p>		
CONTENTS	PROGRAM PERIOD	Aug / 31 / 2010 ~ Nov / 7 / 2010	
<p>The following lectures, workshops, and observations are to be carried out.</p> <ul style="list-style-type: none"> • Issue Analysis Workshop • Issues on water environment and sewage treatment • Japan's experience on the sewage treatment regulations and current problems • Theory of sewage treatment planning • Sewage treatment management • Issues of sewage treatment planning in developing countries • General theory of sewage treatment technique • Current conditions of the disposal site in Higashihiroshima • Maintenance and management of sewage treatment facilities <p>• Preparation and presentation of dissemination materials</p> <p>• Dissemination activities (in home country)</p> <p>• Submission of progress report</p>	IMPLEMENTING PARTNER	Higashihiroshima City	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Water Quality Monitoring for Effective Usage of Water Resources in Central Asia 中央アジア地域 水資源有効利用を目的とした水質モニタリング		PRTD Solution 1084042 Sector : Environmental Management Sub-Sector : Water Pollution	
Target Countries: Central Asian countries which face international river		7 participants / Russian	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Course Objective] In the organizations in charge of water quality monitoring and management, recommendation paper will be presented on improvement of technical standard for administrating area and also on vast water area management.</p> <p>[Expected Module Output] (1) Understanding Japanese laws, regulations, standards on water issue. (2) Improvement on the accuracy management on water quality monitoring. (3) Being able to process the Analysis Result and to apply Wide-area Water Quality Monitoring System (4) Understanding difference of values of respective authorities over the utilization of shared rivers/lakes. (5) Take the recommendation report into an action.</p>	<p>[Target Organization] Ministry of Environment, State Committee for Environment Protection or Nature Protection, Hydromet Center</p> <p>[Target Group] • Policy maker and monitoring technician of water monitoring especially for environmental conservation. With experience of more than 3years but not including agriculture, wastewater and sanitary section. Researcher is not appropriate for this course. • Bachelor of science or adequate academic knowledge and be tough enough to attend practice and field work.</p>		
CONTENTS	PROGRAM PERIOD	Nov / 1 / 2010 ~ Dec / 11 / 2010	
<p>[Preliminary Phase in home country] Preparing Inception report [Core Phase in Japan] (1) Introduction of water quality control policy. Inception report presentation on the actual status and problems on water quality monitoring in Central Asia. (2) Review of Current Water Quality Monitoring Technology and Improvement of Accuracy Management. (3) Data process and application towards compiling database and preparation for setting up GIS in order to utilize the information for further research and policy making. Also, to understand the importance of information disclosure and sharing. Some treatment technology will be introduced. (4) Utilization of water monitoring as process for wide-area environmental conservation and proactive water resource for shared use with the understanding of different situation and opinions of other participants. Its process and challenging issue will be summarized and presented as A/P. [Finalization Phase in home country] Participants will prepare a report on progress of activities in the light of acquired knowledge in Japan in 6 months after the return.</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	This course encourage administrative officer and labo worker dealing with surface water and water environment in lake or pond.	

Capacity Development in Environmental Management (Air and Water Pollution Control) for Middle Eastern countries 中東地域環境管理能力向上(大気汚染・水質汚濁防止)		PRTD Solution 1084148 Sector: Environmental Management Sub-Sector: Water Pollution
Target Countries: Middle Eastern countries	8 participants / English	
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 water pollution control. (In JFY 2010, the program will focus on Water Pollution)</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 water pollution and countermeasures thereof (3) to obtain applicable knowledge on environmental communication (4) to produce draft 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 [Target Group] Administrative Engineers working in National/Local Government Organizations</p>	
CONTENTS	PROGRAM PERIOD Jan / 10 / 2011 ~ Feb / 26 / 2011	
<p>[Preparatory phase (Before coming to Japan)] • Participants are expected to write Country Report on the present situation and problems</p> <p>[Program in Japan] (1) Presentation of Country Report (Discussion) (2) Environmental management (identification, analysis, planning) (Lecture, Observation, Discussion) (3) Environmental Communication (Lecture, Discussion) (4) Formulation and Presentation of draft Action Plan (Guidance, Discussion)</p> <p>[Post-program activities (After participants' return)] • Within 3 months of the end of the program in Japan, participants/participating organizations are expected to improve the above Action Plan and report the progress in Completion Report.</p>	IMPLEMENTING PARTNER Global Environment Centre Foundation (GEC)	
	JICA CENTER JICA Osaka	
	COOPERATION PERIOD 2008~2010	
	REMARKS and WEBSITE In JFY 2010 the program will focus on Water Pollution.	

Workshop for Enhancement of the Governmental Capacity on Water Environment in Asian Countries アジア水環境ガバナンス強化ワークショップ		PRTD Int.Dialogue 1084278 Sector: Environmental Management Sub-Sector: Water Pollution
7 participants / English		
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective]— Enhancement of the capacity of planning and implementation of water environmental management by gaining the understandings of water environmental governance of each target country and also with the knowledge of specific measures and policies gained through this program; — Sharing of the information and knowledge provided by WEPA and also feedback updated information on water environmental governance in each country to WEPA; — Draft of a specific action plan for the improvement of water environmental management.</p> <p>[Expected Results] 1) Sharing of information on water environmental management system in each target country to build common awareness among participants 2) Understanding the policies and systems of water environmental management in JP 3) Identification of common problems among participants and specific challenges in each country through sharing the information and knowledge on water environmental management systems among participants.</p>	Related organization in the field of water environmental management	
CONTENTS	PROGRAM PERIOD Sep / 5 / 2010 ~ Sep / 18 / 2010	
<p>Enhance the capacity of handling skill on water pollution at political level in south East Asia and East Asia countries with improving the partnership among these countries</p> <p>(1) • Inception-Report • Introduce a kind of activities on development water environmental laws and monitoring system in each country (2) • Lecture and Observation (about water environmental law established in Japan) — ① Policies and systems for water environmental conservation at national and local levels. ② Development of watershed management/river basin management in Japan ③ Water environment management system of local government level in Japan ④ Linkage of relevant stakeholders in water environmental management such as national and local governments; governmental sectors, private sector and NGOs. (3) • Lecture and Discussion (Identification of common problems among participants) • emerging management agenda such as Integrated Water Resource Management (IWRM) and Climate Change and Water (4) • Action plan and Progress report</p>	IMPLEMENTING PARTNER Institute for Global Environmental Strategies	
	JICA CENTER JICA Yokohama	
	COOPERATION PERIOD 2009~2011	
	REMARKS and WEBSITE	

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		PRTD Solution 1084246 Sector: Environmental Management Sub-Sector: Mine Pollution	
		15 participants / Spanish	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Effective and tangible action plan to prevent environmental destruction by hazardous substances included in effluent from mining and manufacturing industries will be formulated with close coordination among the related organizations that take charge of the control of the effluent regulation.</p> <p>(Preparatory Phase in participants' respective countries) 1) Problems and issues of effluents from mining and manufacturing industries are clarified.</p> <p>(Phase in Japan) 2) Problems and issues in participating countries will be sorted out</p> <p>3) Draft action plan as a team will be formulated by respective countries</p> <p>5) International common perception of the problem of waste effluent pollution control will be developed among participating countries.</p> <p>(Finalization Phase in participants' home countries) 6) Based on the draft action plan formulated in Japan, the action plan as organizations will be considered.</p>	<p>The central government ministries and local government offices responsible for monitoring the wastewater discharge caused by heavy metals (inorganic) through mining and industrial activities.</p> <p>-In each country, a team must consist of three persons belonging to different ministries and / or municipalities that correspond to this requirement.</p> <p>-Each team must be included at least one official administrator and / or an engineer.</p> <p>-If a team consists of fewer than three persons and / or people of these same ministers or local government offices, that team will be disqualified from selection as a principle.</p>		
CONTENTS	PROGRAM PERIOD	Nov / 8 / 2010 ~ Dec / 11 / 2010	
<ul style="list-style-type: none"> • Analysis and examination of the problems related to effluents pollution from mining and manufacturing industries • Formulation of country reports by team of 3 members in each country • Environmental Administration in Japan (central and local government) • Laws and regulations on mining and mine pollution • Measures for hazardous metal • Generating mechanism, countermeasures and compensation issue of pollution-related diseases (based on Japanese experience) • Discussion • Case study on Minamata disease and Itai Itai disease • Site visit to Hishikari (current effluent treatment system) • Site visit to effluent treatment system in Osaka City • Formulation and presentation of Action Plan as a team • Developing common perception through discussion • Sharing and developing the action Plan • Report to JICA regional office about the status of implementation of the action plan or related activities 	IMPLEMENTING PARTNER	To be decided	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Comprehensive Waste Management Technique 廃棄物管理総合技術		PITD Leaders 1080226 Sector: Environmental Management Sub-Sector: Urban Solid Wastes	
		9 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Course Objective】 Participants will acquire comprehensive knowledge and skills for effective and proper planning and implementation of solid waste management (SWM).</p> <p>【Expected Outputs】 To achieve the above mentioned objective, participants will;</p> <ol style="list-style-type: none"> (1) analyze the problems and causes of SWM in their respective countries, (2) understand the environmental policy and SWM system in Japan, (3) understand the skills and techniques adopted for each SWM process (collection & transportation, intermediate treatment, and final disposal) in Japan, (4) understand the importance of environmental education, and (5) understand the roles of environmental management such as EIA in SWM 	<p>【Target Organization】 Departments in charge of solid waste management in national/local government or public organizations</p> <p>【Target Group】 (1) Technical staff in charge of solid waste management at national/local government or public organizations (2) More than three (3) years of work experience in the field of solid waste management</p>		
CONTENTS	PROGRAM PERIOD	Aug / 25 / 2010 ~ Nov / 21 / 2010	
<p>The following lectures, exercises, observations, and discussions will be carried out.</p> <ol style="list-style-type: none"> (1) Issue analysis workshop (2) Country report presentation (3) Waste management policy: e.g. Administrative system of SWA in Japan (4) Landfill disposal techniques: e.g. Sanitary landfill technique "Fukuoka Method" (5) Collection and transportation: e.g. Time and Motion (6) Waste treatment techniques: e.g. Recycling and hazardous waste treatment (7) Environmental education and awareness: e.g. Government, school, and private initiatives on environmental education and awareness (8) Environmental management: e.g. Concept, methods and case studies of EIA (9) Feedback session (10) Final report making & presentation 	IMPLEMENTING PARTNER	Hiroshima Prefecture, Hiroshima International Center	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE		