

# 17.Environmental Management

Waste management Technique and Environmental Education 廃棄物管理技術と環境教育		PITD Leaders	1080100
		Sector : Environmental Management	
		Sub-Sector : Environmental Administration	
		18 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>&lt;Objective&gt; 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>&lt;Outputs&gt; 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.		
CONTENTS	PROGRAM PERIOD	Jun / 20 / 2010 ~ Sep / 11 / 2010	
<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 3) •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>	IMPLEMENTING PARTNER	Kitakyushu International Technocooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE	The course will be conducted twice in Japan fiscal year 2010: Jun. 2010 – Sep. 2010 and Feb. 2011 – May .2011.	

Adaptive Watershed Management for Flood Countermeasures by Climate Change and Conservation of Ecosystem 気候変動による洪水対策と生態系保全のための順応的流域管理		PITD Trainers	1080765
		Sector : Environmental Management	
		Sub-Sector : Environmental Administration	
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p><b>【Course Objective】</b> 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><b>【Expected Module Outputs】</b> 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><b>【Target Organizations】</b> Project implementation organizations engaging in flood control or ecosystem conservation in watershed areas <b>【Target Group】</b> 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>		
CONTENTS	PROGRAM PERIOD	Aug / 15 / 2010 ~ Oct / 16 / 2010	
<p><b>【Preliminary Phase in home country】</b> Submission of Report (Present issues) <b>【Core Phase in Japan】</b> 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 biodiversity 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) <b>【Finalization Phase in home country】</b> Submission of the Final Report within six months after returning home countries.</p>	IMPLEMENTING PARTNER	Hokkaido University, Hokkaido Development Bureau	
	JICA CENTER	JICA Obihiro	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	<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 <b>FY 2010 is the second year of the Program.</b></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 Sector : Environmental Management Sub-Sector : Environmental Administration	1080936
		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 Sector : Environmental Management Sub-Sector : Environmental Administration	1080215
		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 &amp; 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		

Pollution Control and Local Environmental Management 公害防止と地域環境管理		PITD Solution 1080133 Sector : Environmental Management Sub-Sector : Environmental Administration	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p><b>【Course Objective】</b> 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><b>【Expected Module Outputs】</b> (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"> <li>•local government officers or technician of a national factory</li> <li>•5years or more experience in environmental protection, company advisor, pollution control &amp; still in the similar position handling these jobs</li> <li>•graduate of university</li> <li>•be proficient in English</li> <li>•factory which emit pollution is located in the area in charge</li> </ul>		
CONTENTS	PROGRAM PERIOD	Aug / 23 / 2010 ~ Oct / 7 / 2010	
<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 &amp; 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 &amp; 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>	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.	

Mega-City Environmental Policy and Environmental Management System 大都市地域環境政策・環境マネージメントシステム		PITD Solution 1080992 Sector : Environmental Management Sub-Sector : Environmental Administration	
Target Countries:With the mega-cities with more than 1 million people		10 participants / English	
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>		
CONTENTS	PROGRAM PERIOD	May / 10 / 2010 ~ Jul / 3 / 2010	
<ul style="list-style-type: none"> <li>•Analysis and examination of the environmental problems which participating organizations are facing</li> <li>•Formulation of country reports</li> <li>•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.</li> <li>•EMS(ISO14001), Environment Management System in Japanese enterprises</li> <li>•Formulation of draft process sheet</li> <li>•presentation and discussion about draft process sheet</li> <li>•Sharing and developing the draft process sheet</li> <li>•Report to JICA regional office about the progress of implementation of the process sheet.</li> </ul>	IMPLEMENTING PARTNER	GloTo be decided	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

<b>Marine Environment Protection for Senior Officials in the Maritime Authorities and Law Enforcement Authorities</b> <b>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</b>		PITD Solution 1080822
		Sector : Environmental Management Sub-Sector : Environmental Administration
		8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[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.</p> <p>[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.</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	Jan / 18 / 2011 ~ Mar / 5 / 2011
<p>&lt;Activity in Preliminary Phase in home country&gt; 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</p> <p>&lt;Activity in Core Phase in Japan&gt; 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</p> <p>&lt;Activity in Finalization Phase in home country&gt; Share and discuss, modify the action plan in respective organizations</p>	IMPLEMENTING PARTNER	Japan Coast Guard Association
	JICA CENTER	JICA Okinawa
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	

<b>KOICA-JICA JOINT TRAINING PROGRAM 「Policy and Technology for Energy Conservation and Environmental Protection in East Asia」</b> <b>日韓共同研修「東アジア環境・省エネルギー政策と技術」</b>		PRTD Leaders 1084137
Target Countries: South East Asia and East Asia		Sector : Environmental Management Sub-Sector : Environmental Administration
		14 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【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.</p> <p>【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.</p>	<p>Department which deals with Policy and Technology for Energy conservation and Environmental protection in national/local government or Institution</p>	
CONTENTS	PROGRAM PERIOD	Oct / 17 / 2010 ~ Oct / 30 / 2010
<p>Participants will learn followings through lectures, sitevisits, and discussions.</p> <p>(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</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	<p>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.</p>

<b>Enhancement of Administrative Capacity for Promoting Environmental Education</b> <b>環境教育推進のための行政能力強化</b>		PRTD Solution	1084290
		Sector : Environmental Management	
		Sub-Sector : Environmental Administration	
Target Countries : Chile		10 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<b>【Objective】</b> 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. <b>【Outputs】</b> (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	<b>【Target Organization】</b> CONAMA, City Government <b>【Target Group】</b> 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"		
CONTENTS	PROGRAM PERIOD	Feb / 13 / 2011 ~ Mar / 5 / 2011	
This training aims to formulate plans for introduction of environmental education through learning the case of Nishinomiya City.  (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	IMPLEMENTING PARTNER	NPO: Learning and Ecological Activities Foundation for Children (LEAF)	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	Thia Course is closly connected with on going Technical Cooepration Project in Chile.	

<b>Human resource development program in environmental management and material cycle society (Master's Degree: Engineering or Environmental management)</b> <b>環境管理と資源循環型社会を担う中核的人材育成(長期)</b>		LONG-TERM Leaders	1081206
		Sector : Environmental Management	
		Sub-Sector : Environmental Administration	
		5 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<b>【Objective】</b> The ability of environmental management and research for officers in central/local government and researchers in institution and university is improved.  <b>【Expected Results】</b> (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	Central/local government, research institute and university relating to environmental management and material cycle society		
CONTENTS	PROGRAM PERIOD	Sep / 20 / 2010 ~ Sep / 30 / 2012	
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.  (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	IMPLEMENTING PARTNER	The University of Kitakyushu	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	University of Kitakyushu Faculty of Environmental Engineering website: <a href="http://www.kitakyu-u.ac.jp/env/lang_en/">http://www.kitakyu-u.ac.jp/env/lang_en/</a>	

Air Quality Management Policy 大気保全政策		PITD Solution Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	1080864
		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"> <li>• University graduates or holders of equivalent technical knowledge/qualification</li> <li>• More than three years professional experience</li> <li>• Technical officials in the central or local government responsible for air quality control policy</li> </ul>		
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	Under Planning	
	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 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	1084138
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 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	1084287
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>&lt;Target Organization&gt; Division in national/local government which in charge of policy planning on countermeasure against automobile pollution in urban area</p> <p>&lt;Target Group&gt; 1) Administrative/Technical officers in charge of policy planning on countermeasure against automobile pollution in urban area 2) Experience in the relevant feild: have more than 3 year's experience</p>		
CONTENTS	PROGRAM PERIOD	Sep / 20 / 2010 ~ Nov / 13 / 2010	
<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</p> <ul style="list-style-type: none"> <li>•Presentation/discussion of situation reports</li> <li>(2) •Lectures on overview/history of countermeasures against automobile pollution based on the case study from Osaka area</li> <li>•Lectures on legal structure related to automobile pollution</li> <li>(3)• Practical work on measurement of auto emission, figuring out the amount of emission•Site visit to facilities.</li> <li>(4)•Lectures on City Planning aiming at Environmentally Sustainable Transport</li> <li>(5)•Formulation of "draft training plans for dissemination of applicable knowledge and skills about countermeasures against automobile pollution•Finalization of draft training plans.</li> </ul>	IMPLEMENTING PARTNER	Global Environment Centre Foundation (GEC) <a href="http://gec.jp/">http://gec.jp/</a>	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	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 yeras.	

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 Sector : Environmental Management Sub-Sector : Air Pollution/Acid Rain	1084078
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 asid deposition monitoring •Educational Background: be equal or surpassing to a graduate of university</p>		
CONTENTS	PROGRAM PERIOD	Oct / 17 / 2010 ~ Dec / 18 / 2010	
<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 iconduct 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>	IMPLEMENTING PARTNER	Hyogo Environmental Advancement Association	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE	The result of this training course is highly evaluated for capacity-building of participating countries at the EANET governmental conference.	



Air Pollution Source Management 大気汚染源管理		PRTD Solution	1084286
Target Countries: Asia, Middle East and Latin America		8 participants /	English
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>		
<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		
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	Oct / 17 / 2010 ~ Dec / 18 / 2010	
Participants will learn followings through lectures, site visits and observations; (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 (2) • Air pollution monitoring system in Kitakyushu city • Monitoring and analysis of air pollution substance • Measurement of automobile exhaust gas (3) • Technology of dust collection and control of Sulfur and Nitrogen oxides • Visit to steel company and thermal power station (4) • Lecture of Project cycle management, Instruction for creating Action plan and Issue analysis sheet (5) • Presentation of proposal (Action plan) • Presentation for the final report	<b>IMPLEMENTING PARTNER</b>	Kitakyushu International Techno-cooperative Association (KITA)	
	<b>JICA CENTER</b>	JICA Kyushu	
	<b>COOPERATION PERIOD</b>	2009~2011	
	<b>REMARKS and WEBSITE</b>		

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
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>		
<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>		
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	Sep / 5 / 2010 ~ Oct / 23 / 2010	
[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)	<b>IMPLEMENTING PARTNER</b>	National Environmental Research and Training Institute	
	<b>JICA CENTER</b>	JICA Tokyo(Economy&Env.)	
	<b>COOPERATION PERIOD</b>	2010~2012	
	<b>REMARKS and WEBSITE</b>		

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><b>【Objective】</b> Every participant shares and implements its action plan, and then reports progress to JICA</p> <p><b>【Expected Outputs】</b> (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><b>【Organizations】</b> Sewerage works entities (can be governmental/semi-governmental/ corporate)</p> <p><b>【Personal Qualifications】</b> &lt;Current Duties&gt; Senior sewerage works engineers &lt;Experience&gt; More than five (5) years in relevant field &lt;Educational background&gt; Engineering, Sanitation &lt;Age&gt; In principle, Under 40 years old</p>		
CONTENTS	PROGRAM PERIOD	Sep / 7 / 2010 ~ Nov / 6 / 2010	
<p><b>【Preparatory Phase】</b>Each participant prepares Job report to identify its issues <b>【Core Phase】</b> (1) Current situation and rules &amp; 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 <b>【Finalization Phase】</b>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><b>【Objective】</b> Based on the Action Plan proposed by respective participant, the gained knowledge or skills shall be shared in his/her organization.</p> <p><b>【Expected Results】</b> (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><b>【Target Organizations】</b> National/Local authority in charge of wastewater treatment, sewage work and stormwater drainage <b>【Target Group】</b> (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><b>【Preliminary phase in Participant's home country】</b> Country Report is formulated to clarify the present situation and problems in the sewerage system of the participating country. <b>【Program in Japan】</b> (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. <b>【Finalization Phase in Participant's home country】</b> - 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		

<b>Operation and Maintenance of Sewerage System and Waste Water Treatment Technique</b> <b>下水道維持管理システムと排水処理技術</b>		PITD Trainers 1080103 Sector : Environmental Management Sub-Sector : Water Pollution	
		9 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<b>【Objectives】</b> Based on the Action Plan proposed by respective participant, the knowledge or skills shall be shared his/her organization. <b>【Outputs】</b> (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	<b>【Target Organizations】</b> National/Local authority in charge of sewerage system operation and maintenance		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Mar / 12 / 2011	
(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.	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

<b>The Integrated Water Management of Coastal Seas / Bays and Catchment Areas</b> <b>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</b>		PITD Solution 1080997 Sector : Environmental Management Sub-Sector : Water Pollution	
		8 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<b>【Objective】</b> 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. <b>【Output】</b> 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 applied 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.	<b>【Target Organization】</b> Department which is in charge of environmental management of enclosed coastal seas <b>【Target Group】</b> •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		
CONTENTS	PROGRAM PERIOD	Sep / 5 / 2010 ~ Oct / 30 / 2010	
<ul style="list-style-type: none"> <li>•Preparing a Job Report and considering in the organization</li> <li>•General view of water pollution and provision in Hyogo/Japan</li> <li>•A phenomenon of water pollution and its mechanism</li> <li>•Model analysis of water pollution</li> <li>•Field survey method and measurement for coastal seas/bays and catchment areas</li> <li>•Ecosystem and material cycle</li> <li>•Water environmental management and restoration technology</li> <li>•Environment law and policy</li> <li>•Integrated water management</li> <li>•Midterm discussion and evaluation</li> <li>•Individual advice for the draft</li> <li>•Preparing final action plan and presentation</li> <li>•Monitoring the action plan progress</li> <li>•Drawing the progress report and submission</li> </ul>	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>&lt;Objective&gt; Effective policy targeting waste water management is formulated by corresponding organizations in central / local government.</p> <p>&lt;Output&gt; ①Being able to explain measures taken by central / local government in Japan regarding waste water management. ②Being able to propose effective measures based on basic idea of waste water management systems and techniques. ③Being able to explain and apply how to measure pollution ④Being able to explain effective treatment measures against pollution from viewpoint of water recycle and water circulation ⑤Action plan is formulated, and its implementation is reported through final report.</p>	This program is offered to technical staffs dealing with waterworks and sewerage in central/local government.		
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><b>【Objectives】</b> 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><b>【Outputs】</b> (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><b>【Target Organizations】</b> Departments related to wastewater treatment in the central/local government or manufacturing enterprise.</p> <p><b>【Target Group】</b> 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】</p> <p>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】</p> <p>(1) To understand the issues of the sewage treatment in their respective countries.</p> <p>(2) To understand the importance of sewage treatment in relation to the preservation of water-environment and living-environment.</p> <p>(3) To gain basic knowledge on sewage treatment planning.</p> <p>(4) To gain basic knowledge on sewage treatment techniques.</p> <p>(5) To gain basic knowledge on maintenance and management techniques of sewage treatment facilities.</p> <p>(6) To plan dissemination lectures/workshops based on the training course and implement them within their respective organizations.</p>	<p>【Target Organization】</p> <ul style="list-style-type: none"> <li>Central/local government and public organizations in charge of planning, operation, maintenance and management of sewage treatment facilities.</li> </ul> <p>【Target Group】</p> <ul style="list-style-type: none"> <li>Technical officials in charge of sewage treatment at central/local government or public organizations</li> <li>3 years of experience in the field concerned</li> <li>The belonging organization owns a sewage treatment facility, or is in charge of its plan, operation and maintenance</li> </ul>		
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"> <li>Issue Analysis Workshop</li> <li>Issues on water environment and sewage treatment</li> <li>Japan's experience on the sewage treatment regulations and current problems</li> <li>Theory of sewage treatment planning</li> <li>Sewage treatment management</li> <li>Issues of sewage treatment planning in developing countries</li> <li>General theory of sewage treatment technique</li> <li>Current conditions of the disposal site in Higashihiroshima</li> <li>Maintenance and management of sewage treatment facilities</li> </ul> <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】</p> <p>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】</p> <p>(1) Understanding Japanese laws, regulations, standards on water issue.</p> <p>(2) Improvement on the accuracy management on water quality monitoring.</p> <p>(3) Being able to process the Analysis Result and to apply Wide-area Water Quality Monitoring System</p> <p>(4) Understanding difference of values of respective authorities over the utilization of shared rivers/lakes.</p> <p>(5) Take the recommendation report into an action.</p>	<p>[Target Organization]</p> <p>Ministry of Environment, State Committee for Environment Protection or Nature Protection, Hydromet Center</p> <p>[Target Group]</p> <ul style="list-style-type: none"> <li>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.</li> <li>Bachelor of science or adequate academic knowledge and be tough enough to attend practice and field work.</li> </ul>		
CONTENTS	PROGRAM PERIOD	Nov / 1 / 2010 ~ Dec / 11 / 2010	
<p>[Preliminary Phase in home country] Preparing Inception report</p> <p>[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.</p> <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
Target Countries: Middle Eastern countries		8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】</p> <p>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】</p> <p>(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】</p> <p>National/Local Governmental Organization engaged in Environmental Administration</p> <p>【Target Group】</p> <p>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)】</p> <ul style="list-style-type: none"> <li>Participants are expected to write Country Report on the present situation and problems</li> </ul> <p>【Program in Japan】</p> <p>(1) Presentation of Country Report (Discussion)</p> <p>(2) Environmental management (identification, analysis, planning) (Lecture, Observation, Discussion)</p> <p>(3) Environmental Communication (Lecture, Discussion)</p> <p>(4) Formulation and Presentation of draft Action Plan (Guidance, Discussion)</p> <p>【Post-program activities (After participants' return)】</p> <ul style="list-style-type: none"> <li>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.</li> </ul>	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;</p> <ul style="list-style-type: none"> <li>- Sharing of the information and knowledge provided by WEPA and also feedback updated information on water environmental governance in each country to WEPA;</li> <li>- Draft of a specific action plan for the improvement of water environmental management.</li> </ul> <p>【Expected Results】</p> <p>1) Sharing of information on water environmental management system in each target country to build common awareness among participants</p> <p>2) Understanding the policies and systems of water environmental management in JP</p> <p>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</p> <ul style="list-style-type: none"> <li>• Introduce a kind of activities on development water environmental laws and monitoring system in each country</li> </ul> <p>(2) • Lecture and Observation (about water environmental law established in Japan)</p> <p>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.</p> <p>(3) • Lecture and Discussion (Identification of common problems among participants)</p> <ul style="list-style-type: none"> <li>• emerging management agenda such as Integrated Water Resource Management (IWRM) and Climate Change and Water</li> </ul> <p>(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. (Phase in Japan) 2) Problems and issues in participating countries will be sorted out 3) Draft action plan as a team will be formulated by respective countries 5) International common perception of the problem of waste effluent pollution control will be developed among participating countries. (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. -Each team must be included at least one official administrator and / or an engineer. -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"> <li>• Analysis and examination of the problems related to effluents pollution from mining and manufacturing industries</li> <li>• Formulation of country reports by team of 3 members in each country</li> <li>• 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</li> <li>• Case study on Minamata disease and Itai Itai disease</li> <li>• Site visit to Hishikari (current effluent treatment system)</li> <li>• Site visit to effluent treatment system in Osaka City</li> <li>• Formulation and presentation and discussion of Action Plan as a team</li> <li>• Developing common perception through discussion</li> <li>• Sharing and developing the action Plan</li> <li>• Report to JICA regional office about the status of implementation of the action plan or related activities</li> </ul>	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><b>【Course Objective】</b> Participants will acquire comprehensive knowledge and skills for effective and proper planning and implementation of solid waste management (SWM).</p> <p><b>【Expected Outputs】</b> To achieve the above mentioned objective, participants will; (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 &amp; 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>	<p><b>【Target Organization】</b> Departments in charge of solid waste management in national/local government or public organizations</p> <p><b>【Target Group】</b> (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> <p>(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 &amp; presentation</p>	IMPLEMENTING PARTNER	Hiroshima Prefecture, Hiroshima International Center	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE		

<b>WASTE MANAGEMENT and 3R(Reduce,Reuse and Recycle)POLICIES</b> 廃棄物3R・再資源化		PITD Solution 1080121
		Sector : Environmental Management Sub-Sector : Urban Solid Wastes
		20 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.	Target Organization: Ministry of Environment, waste management section/ Ministry of Industry ,waste management section  Target Group: (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	under planning
(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 / green purchasing / product assessment (including LCA) / 3R-oriented design (Design for Environment)) (4) Present status of recycling by products in Japan (packaging & 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(Economy&Env.)
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	This training course is scheduled to be implemented twice within JFY2010

<b>Seminar on Comprehensive Solid Waste Management and the 3R</b> 廃棄物総合管理及び3R		PITD Solution 1080974
		Sector : Environmental Management Sub-Sector : Urban Solid Wastes
		12 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
The expected outcome of this program is for the organization to which a participant belongs to sort out directions of policy development for the improvement of waste management in their own countries based on an action plan to be drawn up by the participant through this program. 1 To be able to explain the overview and guiding principles of Japan's policy systems and technologies for waste management and the establishment of sound material-cycle society.(semi-senior object) 2 To be able to explain the overview and features of Japan's systems and policies for waste management and the 3Rs 3 To be able to explain waste management technologies that could be applicable to their own countries 4 To draw up an action plan for the improvement of waste management and recycling administration, taking account of the analysis of issues the participant's organization are facing.	1) Be ranked as at least a director general or a director in charge of SWM planning in central governments, provincial governments or local bodies 2) Have more than 2 years' experience in the relevant field 3) Be university graduates or possess equivalent technical qualifications in this field 4) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more 5) Health: must be in good health, both physically and mentally 6) Must not be serving any form of military service. 7) Age: be under fifty (50) years	
CONTENTS	PROGRAM PERIOD	Jun / 13 / 2010 ~ Jul / 3 / 2010
L: History of Japan's waste management L: Institutions and mechanisms for waste management in Japan L: Public cleansing activities at local governments L: Public awareness and environmental education L: International promotion of the 3Rs L: Technology for waste treatment and disposal V: refuse transfer stations, intermediate treatment facilities, recycling facilities, final disposal facilities, research institutions L, V: Human waste treatment in Japan Practice: Analytical techniques of refuse and water quality Exercise: Presentation of country report Exercise: Group discussions Exercise: Drawing up action plans Exercise: Presentation of action plans	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center
	JICA CENTER	JICA Yokohama
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	



Urban Solid Waste Management by Local government 地方自治体における都市廃棄物処理		PITD Solution 1080802
		Sector : Environmental Management Sub-Sector : Urban Solid Wastes
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><b>【Objectives】</b> This course aims for more effective and efficient waste management plan to be proposed and discussed in participatory countries and organizations based on the action plans designed by participants.</p> <p><b>【Outputs】</b> (1) To realize issues on solid waste managements and get hints to address them through exchange the information and ideas with lecturers and/or other participants (2) To acquire knowledge and 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) To explain the role of citizens and the importance of the collaboration between local government and citizens (4) To design action plans which propose some solutions towards the issues and problems on solid waste management of each participatory country.</p>	<p><b>【Target Organizations】</b> Local governments (or national governments' sections which support local governments' organizations) are in charge of urban solid management waste</p> <p><b>【Target Group】</b> 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 / 9 / 2010 ~ Oct / 20 / 2010
<p>1. Preliminary: Country Report preparation as a matrix form, which marshal their issues and the training modules in Japan. 2. In Japan: (1) Current situation and problems with waste management in Developing Countries (Workshop, Presentation and Discussion) (2) Current Situation and Problems of Waste Management in Japan (Lecture, Observation and Exercise) (3) Collection and transport work (Lecture, Observation and Exercise) (4) Intermediate treatment work (Lecture, Observation and Exercise) (5) Final disposal (Lecture, Observation and Exercise) (6) Waste that requires special treatment (Lecture, Observation and Exercise) (7) Collaboration with Citizens (Lecture, Observation and Exercise) (8) Country Report/Action Plan Making (Exercise, Presentation and Discussion) 3. After returning: Participants explain the action plans to their organizations. Participants report their activities on fields to JICA &amp; implementing partners.</p>	IMPLEMENTING PARTNER	Global Environment Centre Foundation (GEC) , Osaka City Environment Bureau
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	IMPLEMENTING PARTNER; Global Environment Centre Foundation (GEC) <a href="http://gec.jp/">http://gec.jp/</a>

Solid Waste Management by Local Government 地方自治体における廃棄物処理		PITD Solution 1080091
		Sector : Environmental Management Sub-Sector : Urban Solid Wastes
		14 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><b>【Objective】</b> A draft plan for improvement of solid waste management will be formulated by a local government of an area designated as a model.</p> <p><b>【Outputs】</b> (1) To grasp the reality and issues on waste management and to extract practical hints for solution through exchanging views among participants (2) To be able to explain the current state of measures against waste taken by a local government for the effective use in each country. (Planning, effective collection and transportation method, sanitary treatment/disposal method, etc.) (3) To be able to explain the roles of and cooperation among citizens, businesses, and local governments for the appropriate waste management (4) Action plan is formulated to solve issues related to waste management based on the reality of each country (5) Action Plan will be studied by each participating organization</p>	<p><b>【Target Organizations】</b> Local governments &amp; related organizations engaged in solid waste management of a model area designated by each country.</p> <p><b>【Target Group】</b> (1) Current Duties: be an administrative officer/ technical officer engaged in solid waste management. Officers of the national government, in charge of supporting local governments, are also qualified. (2) Experience: have more than 3 years' experience in the field of solid waste treatment or have equivalent level of knowledge. (3) Others: participants should stay engaged in solid waste management after the program.</p>	
CONTENTS	PROGRAM PERIOD	Aug / 22 / 2010 ~ Oct / 16 / 2010
<p><b>【Preliminary Phase in a participant's home country】</b> Formulation and submission of Inception Report</p> <p><b>【Core Phase】</b> <u>Related to output (1):</u> Sharing the information &amp; ideas on waste (type and composition) through report presentation &amp; discussion <u>Related to output (2):</u> Waste treatment planning, Reducing wastes, Waste collection, Intermediate treatment, Waste incineration, Final disposal, Recycling. Discussion and suggestions to apply the above mentioned items to participants' countries. <u>Related to output (3):</u> Citizens's role and and the importance of the collaboration between local government &amp; citizens in the field of solid waste management. Environmental education and public awareness to reduce waste. <u>Related to output (4):</u> Workshop and Discussion to design action plan and its improvement through individual guidance <b>【Finalization Phase】</b> Submission of final report to JICA</p>	IMPLEMENTING PARTNER	Hyogo Environmental Advancement Association
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	Guidance considering the participating country's situation will be provided for each participant. This course will be implemented twice for JFY 2010. The second one is from Jan. 10 to Mar. 5, 2011.

<b>Waste Management Technology and 3Rs for Central and South American Countries</b> <b>中南米地域 廃棄物処理技術及び3R</b>		PRTD Solution 1084026 Sector : Environmental Management Sub-Sector : Urban Solid Wastes
Target Countries: South American Countries	13 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objective】</b> The Plan to improve solid waste management administration is officially formulated by the participants organization, based on the Action Plan proposed through the program in Japan. <b>【Outputs】</b> 1. Understand administration system of solid waste management aiming at establishment of a sound material-cycle society 2. Understand waste treatment technology (collection and transportation, intermediate treatment, final disposal, reuse and recycling etc.) 3. Propose Action Plan in order to improve and strengthening of solid waste management administration, based on analysis of each problems and obtained knowledge and skills in Japan	<b>【Target Organization】</b> Central or local government in charge of solid waste management including 3R (Reduce, Reuse and Recycle) <b>【Target Group】</b> 1. Officers in charge of solid waste management including 3R (Reduce, Reuse and Recycle) in central / local government 2. Have at least five (5) years of practical work experience	
CONTENTS	PROGRAM PERIOD	Aug / 17 / 2010 ~ Oct / 1 / 2010
<b>【Preliminary Phase】</b> Preparation and submission of Country Report <b>【Phase in Japan】</b> 1. Administration system of solid waste management: Waste management system in Japan, Approach to 3R for establishing a sound material-cycle society, Waste management and 3R policies at local government, Environmental(waste) education, Partnership with community 2. Waste treatment technology: Collection and transportation, intermediate treatment, final disposal, reuse and recycling, Compost etc. 3. Propose "Action Plan": Presentation of Country Report, Discussion, Presentation of Action Plan <b>【Finalization Phase】</b> Submission of the "Final Report" describing the progress of implementing the Action Plan within 3 months	IMPLEMENTING PARTNER	①Japan Environmental Sanitation Center, ②Environmental Affairs Bureau, City of Sapporo
	JICA CENTER	JICA Sapporo
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

<b>Waste Management for Promoting Recycling-Oriented Societies in Central and South America</b> <b>中南米地域 循環型社会形成促進のための廃棄物管理</b>		PRTD Solution 1084146 Sector : Environmental Management Sub-Sector : Urban Solid Wastes
Target Countries: Central and South American Region	29 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objective】</b> Comprehensive master plan or related action plan on SWM will be formulated, and accordingly, the SWM system shall be improved. Thus, current problems/ challenges in the said field will be solved and recyclable society will be further promoted in Central and South America. <b>【Expected Results】</b> 1) Understanding the outline and characteristics of administrative waste management in Japan and extracting hints for improvement comparing with the status of respective country. 2) Understanding technologies for waste treatment and recycling. 3) Mastering know-how on encouragement for environmental awareness practicing by themselves focusing on waste management. 4) Presenting each of their plan in national/local government to be improved on waste management system for establishing a sound Material-Cycle Society and their role and duty accordingly.	<b>【Target Organization】</b> Central and local government who are facing the solid waste management problems in Central and South American countries. Local government officials are encouraged to participate in.  <b>【Target Group】</b> • administrative officer in Environmental management section, who understands technical matter (technical manager or researcher is not appropriate for this course) • 5 years or more experience in waste management • preferred to be a graduate of university	
CONTENTS	PROGRAM PERIOD	May / 17 / 2010 ~ Jul / 3 / 2010
<b>【Preliminary Phase in home country】</b> Formulation of Inception Report <b>【Core Phase in Japan】</b> 1) Understanding Japanese policy, treatment system and recycling laws on waste management. Presenting current situation and problems of each country, local area and workplace through Job report in order to share with participants and clarify each problem. 2) Verifying 3R's methods, management system & technology for plastics, domestic appliances & automobile based on Japanese recycling laws. 3) Understanding each role and duty for encouraging environmental awareness in local government, NPO, School, household, enterprises and community. Considering practical 3R's activities in small scale unit involving the local people for establishing a sound Material-Cycle Society. 4) Deliberating and making framework of masterplan or action plan as a result of the course to solve their problems and presenting the plan. <b>【Finalization Phase in home country】</b> Implementation of Action Plan	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Capacity Development for Local Government in Comprehensive Solid Waste Management in the Republic of Peru ペルー国向け地方自治体のための固形廃棄物総合管理		PRTD Solution 1084017
Target Countries: PERU		15 participants / Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] A concrete Master Plan or Action Plan will be formulated or revised in each local government which the participants belong to.</p> <p>[Expected Results] 1) To extract clues for improvement through understanding outline and features of the Japanese solid waste management and comparing to own country. 2) To understand techniques related to treatment of the solid waste and recycling. 3) To acquire know-how for promoting environmental consciousness through experiences 4) To present the plan for improving the system of the solid waste management in own organization and actual activities and responsibility of participants.</p>	<p>[Target Organization] Local Gov'ts which are the target of Yen Loan project on waste management.</p> <p>[Target Group] • administrative officer in Environmental management section, who understands technical matter (technical manager or researcher is not appropriate for this course) • 5 years or more experience in waste management • preferred to be a graduate of university</p>	
CONTENTS	PROGRAM PERIOD	Jan / 31 / 2011 ~ Mar / 13 / 2011
<p>[Preliminary Phase] Formulation of Inception Report</p> <p>[Training Program in Japan] 1) Find out the current problems and the improving plan among participants and overview of Solid Waste Management in Japan 2) Solid Waste Management Technologies 3) Environmental Education and awareness raising 4) Action Plan Development</p> <p>[Finalization Phase] Implementation of Action Plan</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p>	<p>International Center for Environmental Technology Transfer</p> <p>JICA Chubu</p> <p>2010~2012</p>
	REMARKS and WEBSITE	

Dissemination of Education for Sustainable Development through environmental education in Pacific Region 大洋州地域 環境教育を通じたESD(持続可能な開発のための教育)の普及		PRTD Solution 1084074
Target Countries: Nauru, Solomon Is., Marshall, Samoa, Tonga, Palau		6 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Under the theme of the waste disposal problem which is the common characteristic in Oceanian countries, ESD promotion plan will be formulated as suit the each countries' condition.</p> <p>【Outputs】 (1) To understand the Japan's environmental policy and projects. (2) To understand the education for community and human development in a sustainable way through environmental issues. (3) To understand waste disposal problems, international trends and an environmental education. (4) To learn planning of problem solution and business promotion method utilizing the regional characteristics. (5) To formulate action plans for sustainable development of a region in each country.</p>	<p>【Target Organizations】 Ministries related ESD (such as Ministry of Environment, Education, Economy, Foreign Affairs and so on)</p> <p>【Target Group】 1) Current Duties: be an officer, technical officers in the administrative bodies who is presently engaged in the field of environmental policy or environmental education (Participants from not only the Ministry of Environment and Education but also other ministries and agencies are acceptable) 2) Educational Background: be equal or surpassing to a graduate of university 3) Age: be between the ages of 26 and 40 years</p>	
CONTENTS	PROGRAM PERIOD	Oct / 3 / 2010 ~ Oct / 23 / 2010
<p>1. • To take lectures about outline of basic environment plan of central and local government in Japan. • To take lectures about autonomy's activities from Nishinomiya City.</p> <p>2. • To take lectures about basic notion of ESD • To visit the sites of education and activity of ESD in Nishinomiya City</p> <p>3. • To visit Nishinomiya Waste Treatment Facility and private waste treatment facility • To take lectures about economic activity related to waste products and international trend</p> <p>4. • Visit a school and local community to learn environmental education for waste products • To have a workshop of business solution about regional development</p> <p>5. To make up an action plan through a workshop</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p>	<p>Learning and Ecological Activities Foundation for Children</p> <p>JICA Hyogo</p> <p>2008~2010</p>
	REMARKS and WEBSITE	

Solid Waste Management with Community Participation 市民参加型廃棄物管理研修		PRTD Solution 1084224
Target Countries: ASEAN countries		10 participants / English
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>	
<p>&lt;Objective&gt; Plans towards solid waste management with community participation will be approved in organizations.</p> <p>&lt;Outputs&gt; (1) Being able to explain basic legal frameworks and systems in central / local governments. (2) Being able to explain environmental education and related activities with community participation (3) Being able to apply and carry out adequate final disposal method (4) Being able to perform composting of organic waste (5) Action plan is formulated, and its implementation is reported through final report.</p>	This program is offered to governmental organizations which are engaged in solid waste management or environmental education for citizens.	
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	Sep / 5 / 2010 ~ Oct / 30 / 2010
<ul style="list-style-type: none"> <li>○ Overview of waste management and its legal frameworks in Japan.</li> <li>○ Trash separation, collection and treatment system in local governorates.</li> <li>○ Technologies in recycling solid waste and industrial waste</li> <li>○ Technologies in treating medical waste and hazardous waste</li> <li>○ Environmental education and enlightenment in local government</li> <li>○ Environmental activities by related facilities and organizations</li> <li>○ Discussion on environmental activities with citizens</li> <li>○ Systems and rules in final disposal dump in Japan</li> <li>○ Semiaerobic landfill</li> <li>○ Landfill in developing countries</li> <li>○ Theory of organic waste composting</li> <li>○ Case study of organic waste composting</li> <li>○ Basic procedure of organic waste composting</li> <li>○ Formulation and presentation of action plan</li> <li>○ Formulation of final report</li> </ul>	<b>IMPLEMENTING PARTNER</b>	Kitakyushu International Techno-Cooperative Association (KITA)
	<b>JICA CENTER</b>	JICA Kyushu
	<b>COOPERATION PERIOD</b>	2010~2012
	<b>REMARKS and WEBSITE</b>	

Establishment of Sound Material Cycle Society for ASEAN Countries アセアン地域 循環型社会の構築		PRTD Solution 1084006
Target Countries: ASEAN Countries		6 participants / English
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>	
<p><b>【Objective】</b> Policy related to 3R and environmental education at national and local level is formulated for promoting establishment of sound material cycle society.</p> <p><b>【Expected Results】</b> (1) Participants will be able to explain the overview of the system for establishment of sound material cycle society in central and local government of Japan. (2) Participants will be able to explain the measures to understand concrete efforts implemented by local government and private company. (3) Participants will be able to explain the environmental education activity and management of final disposal site. (4) Participants will be able to formulate action plan for introduction of practical 3R and environmental education activities.</p>	Central/local government and NGO relating to solid waste management, 3R and environmental education	
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	Jan / 10 / 2011 ~ Feb / 19 / 2011
<p>Participants will learn followings through lectures, site visits and practices;</p> <p>(1) Introduction of legal system for sound material cycle, Introduction of 3R system and environmental management in Japan, Administration of industrial waste management, International waste material flow in Asian countries (2) Overview of eco town project, Separate collection in offices and household, Data collection and analysis for general waste, Hazardous waste treatment in hospital (3) Environmental education for citizens, River clean-up campaign by citizen, Composting activity for general waste (4) Job report presentation, Creation of Issue analysis sheet, Action plan presentation (5) Presentation of proposal (Action plan) in participants' organization, Presentation for the final report</p>	<b>IMPLEMENTING PARTNER</b>	Kitakyushu International Techno-cooperative Association (KITA)
	<b>JICA CENTER</b>	JICA Kyushu
	<b>COOPERATION PERIOD</b>	2009~2011
	<b>REMARKS and WEBSITE</b>	KITA website: <a href="http://www.kita.or.jp/english/e_index.html">http://www.kita.or.jp/english/e_index.html</a>

Sustainable Solid Waste Management in Caribbean Islands カリブ島嶼国における持続可能な廃棄物管理		PRTD Solution 1084305 Sector : Environmental Management Sub-Sector : Urban Solid Wastes	
Target Countries : Caribbean Countries	12 participants /	English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Course Objective】 The issues on sustainable solid waste management in small islands which participating organization are facing will be directed, and the practical measures to the issues will be formulated.</p> <p>【Expected Module Output】 (1) Issues on sustainable solid waste management in participating country will be solved. (2) Issues on sustainable solid waste management will be solved, regarding Okinawa's case. (3) Issues on establishing participatory solid waste management will be solved. (4) To be able to formulate an institutional action plan which aims for solving a issue in sustainable waste management. (5) The action plan will be shared and submitted in participating organization.</p>	<p>【Target Organization】 Ministries, Agencies and NGOs concerned with solid waste management</p> <p>【Target Group】 1) Current Duties: Be involved (currently or possibly in the near future) in solid waste management 2) Experience in the relevant field: have more than five (5) years' practical experience in the above field</p>		
CONTENTS	PROGRAM PERIOD	Jun / 1 / 2010 ~ Jul / 10 / 2010	
<p>&lt;Activity in Preliminary Phase in home country&gt; Formulating a Job Report describing the present situation of solid waste management in the participants' countries, and participants' detailed work and roles of their organization.</p> <p>&lt;Activity in Core Phase in Japan&gt; This program consists of lecture, field work, observation tour and discussion. (1) Formulation and presentation of Job Report (2) Solid Waste Management Legislation in Japan, Outline of Solid Waste Administration in Okinawa, Waste management in Japan, Waste management in developing nations, Current situation and issues of final disposal site, Fukuoka Landfill Method, Role of municipality, Naha Clean Center and Recycle-plaza (3) Necessity for citizens and companies to cooperate, Recycling, Environmental education (4) Discussion on the plan which aim sustainable solid waste management, Discussion on the direction for solution creation, Formulation and presentation of an action plan</p> <p>&lt;Activity in Finalization Phase in home country&gt; (5) Share and modify the action plan in respective organizations</p>	IMPLEMENTING PARTNER	Okinawa Citizens' Recycling Movement	
	JICA CENTER	JICA Okinawa	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	This course will be implement twice for JFY2010. The second course is scheduled from 26th Oct. to 4th Dec. in the same content.	

Creation of Recycling Society based on Hazardous Waste Management and Appropriate Disposal in Asia 有害廃棄物管理・適正処理を基盤とするアジアの循環型社会形成		PRTD Solution 1084209 Sector : Environmental Management Sub-Sector : Industrial Solid Wastes
10 participants /	English	
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Issues for implementation/improvement of the Hazardous Waste Management and the waste recycling are identified, and the policy direction becomes clear. To be able to explain the issues of hazardous waste, including their background and existing counter measures. Respective duty and issues within his/her organization will be confirmed/identified. To understand the waste management administration system for recycle-based society, and be able to compare the case of Japan with respective country's situations. To understand the technology of hazardous waste disposal(Waste collection, Transportation, Intermediate Processing, Final Disposal, Reuse, Recycling) and be able to compare the case of Japan with their respective country's situations. Based on the problem analysis of each organization, which participants come from, the action plans in respective country will be prepared. Discussions on the future plans for improvement of Hazardous Waste Management administration are undertaken and clear future directions are presented.</p>	<p>1) Current Duties: be mid-career officials presently in charge of hazardous waste management in LGU and central government agencies 2) Educational Background: be university graduates or possess equivalent technical qualifications in this field 3) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more 4) Health: must be in good health, both physically and mentally, to undergo the course 5) Must not be serving any form of military service. 6) Age: be under 45 years</p>	
CONTENTS	PROGRAM PERIOD	Jul / 13 / 2010 ~ Aug / 14 / 2010
<p>Make the Job Reports, presentations and discussions. Discuss for problem resolution of trainee by learning the policy for formulation the recycle-based society by the national and local government, the system for waste management administration and role of stakeholder. Discuss problem resolutions of trainees by learning the efforts about the hazardous waste disposal technology used by local government and private companies through lectures, field visits and practical work. Preparation and presentation of country reports, interim discussions and provision of advise for action plans. To make and submit the Final Reports.</p>	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center
	JICA CENTER	JICA Yokohama
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Cleaner Production through Productive Maintenance 生産保全によるクリーナープロダクション		PITD Solution 1080885
		Sector : Environmental Management Sub-Sector : Cleaner Production
		17 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><b>【Objective】</b> Integrated plan to introduce cleaner production based on productive maintenance will be formulated, and proposed to target organizations.</p> <p><b>【Expected Results】</b> (1)Participants will be able to explain the basic concept of CP technology for productivity improvement and energy conservation in Japan. (2)Participants will be able to explain the management measures for effective maintenance site and prevention of occupational and maintenance accident. (3)Participants will be able to explain maintenance technology and training methodology for energy conservation and productivity improvement in Japan. (4)Participants will be able to formulate action plan for introduction of CP technology.</p>	<p>&lt;target organization&gt; This program is offered to engineers engaged in facility maintenance management in energy-related facilities or institutions related to promotion of CP.</p>	
CONTENTS	PROGRAM PERIOD	Aug / 1 / 2010 ~ Nov / 20 / 2010
<p>Participants will learn followings through lectures, site visits and practices; (1)•Global environmental issue and basic knowledge of cleaner production •History and current situation of environmental management in Kitakyushu city •Necessity of maintenance management (2)•Management measures in productivity and maintenance site •Methodology of how-to advance and improve maintenance management in each element of job •Methodology for prevention of occupational and maintenance accident and risk management (3)•History and background of maintenance management for productivity improvement and energy conservation •Technology and Training methodology for maintenance management •Introduction of technology, methodology and supporting tool (4)• Presentations and formulation of progress report</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	The program will be implemented twice for Japan fiscal year 2010: first from Aug. 2010 to Nov. 2010, and second from Jan. 2011 to Apr. 2011.

Cleaner Production in Process Industries for Latin American Countries (for Managers and Engineers of Process Industries) 中南米地域 プロセス工業におけるクリーナープロダクション		PRTD Solution 1084155
		Sector : Environmental Management Sub-Sector : Cleaner Production
		13 participants / Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><b>【Objectives】</b> 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><b>【Outputs】</b> (1)To be able to explain the concept and specific usage method of Cleaner Production techniques. (2)To be able to design or improve equipment to allow the reduction of environmentally-harmful waste products and keep resource and energy usage to a minimum. (3)To be able to keep the release of environmental pollutants and raw material and energy loss associated with equipment trouble to a minimum through improving reliability of equipment, and maintaining efficiency. (4)To be able to create an action plan for the introduction of Cleaner Production techniques.</p>	<p><b>【Target Organizations】</b> Organizations belonging to the field of process industries such as chemical, petroleum refinery, ion and steel, food and ceramic plant</p> <p><b>【Target Group】</b> Managers or engineers in the field of process industries</p>	
CONTENTS	PROGRAM PERIOD	Aug / 9 / 2010 ~ Nov / 26 / 2010
<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
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	This seminar will be implemented twice for JFY 2010. The second one is scheduled from early Feb 2011 to late May 2011 in the same content. (The term of this training course is not yet determined.)

Promotion of Cleaner Production for Southern and Eastern European Countries 南東欧地域 クリーナープロダクション振興		PRTD Solution 1084076 Sector : Environmental Management Sub-Sector : Cleaner Production
		10 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>	
CONTENTS	PROGRAM PERIOD	Oct / 11 / 2010 ~ Nov / 20 / 2010
<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>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	Participants will understand comprehensive knowledge and techniques regarding cleaner production including technology components of low enviromental loading, resource saving, and recycling.

Tropical Biomass and Bio-fuel Utilization 熱帯バイオマスおよびバイオ燃料利用		PITD Trainers 1080032 Sector : Environmental Management Sub-Sector : Global Warming
Target Countries: Countries located in the tropical and subtropical area.		6 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Course Objective] The technologies for the effective utilization of biomass/bio-fuels that suit the condition of the home country in the tropics and the subtropical area are shared in the organization.</p> <p>[Expected Module Output] (1) To be able to explain the approaches to create the sustainable and re-cycling oriented society using biomass/ bio-fuels. (2) To be able to estimate the amount of the biomass resources or bio-fuels. (3) To master the Individual technologies for the planning of biomass/bio-fuels utilization. (4) To be able to make a plan for effective utilization system of biomass/bio-fuels based on the above-mentioned (1) to (3). (5) The action plan made in the training in our country is shared in the trainee's belonging organization, and it is corrected if necessary.</p>	<p>[Target Organization] Administrative body and NPO engaged in tropical biomass and bio-fuel utilization</p> <p>[Target Group] (1) Be administrative officials presently engaged in planning of biomass utilization / research officials involved in planning process of biomass utilization / presently work as an adviser to planning and promoting biomass utilization (2) Age: be between 25 and 35 years of age.</p>	
CONTENTS	PROGRAM PERIOD	Sep / 28 / 2010 ~ Nov / 27 / 2010
<p>&lt;Activity in Preliminary Phase in home country&gt; Formulating a Job Report describing the present situation of biomass resources and its utilization in the participants' countries, and participants' detailed work and roles of their organization. &lt;Activity in Core Phase in Japan&gt;This program consists of lecture, field work, observation tour and discussion. (1) Environmental problems such as global warming and energy problem, Basic frameworks of Biomass Nippon and Biomass Asia (2) Estimation of the total amount and usable biomass/bio-fuels resources (3) Production, collection and transportation of unused biomass and energy crops, Energy conversion technologies, Conversion of biomass as materials and its utilization, Measurement, monitoring and evaluation (4) PDCA of biomass/bio-fuels utilization system, Formulation and presentation of action plan. &lt;Activity in Finalization Phase in home country&gt; (5) Share and discuss, modify the action plan in respective organizations</p>	IMPLEMENTING PARTNER	The faculty of agriculture, University of the Ryukyus
	JICA CENTER	JICA Okinawa
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Adaptation for Climate Change 気候変動への適応		PITD Solution 1080066 Sector : Environmental Management Sub-Sector : Global Warming	
		20 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】 To consider and to elaborate Action Plan of adaptation to Climate Change based on impact assessment and vulnerability assessment in participants' organizations.</p> <p>【Expected Results】 (1) To understand the current situation on adaptation to Climate Change in respective countries. (2) To understand the overview and international framework on adaptation to Climate Change. (3) To understand the factors for adaptive capacity, impact assessment and vulnerability assessment on Climate Change, as well as understanding Japanese measures, technology, cases on adaptation to Climate Change, and the way of cooperation for developing countries. (4) To formulate measures to solve the problems on adaptation to Climate Change in respective countries.</p>	<p>【Target Organizations】 national (or local) governmental office which is involved in adaptation to Climate Change</p> <p>【Target Group】 Current Duties: be an officer in charge of planning and implementation of adaptation to Climate Change in national (or local) governmental office. (Preferably be an officer in national focal point of UNFCCC, who is in charge of coordination of adaptation issues in respective countries) Experience in the relevant field: have more than 3 years' experience.</p>		
CONTENTS	PROGRAM PERIOD	Sep / 26 / 2010 ~ Oct / 27 / 2010	
<p>【Preliminary Phase】 •To make Inception Report</p> <p>【Core Phase in Japan】 (1)~(3)To acquire the necessary skills and techniques of adaptation for Climate Change issues through lectures, discussions, practical exercises, site visits, etc. •International framework and negotiation on adaptation to Climate Change •Climate Change policy in Japan •Impact assessment and vulnerability assessment, measures, technology and cases on adaptation for Climate Change (4)To make and present Action Plan</p> <p>【Finalization Phase】 •To share and discuss the Action Plan(draft) in the participants' organizations •To make and submit Final Report (within 6 months since returning home country)</p>	IMPLEMENTING PARTNER	JICA Tsukuba (tentative)	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Development of Strategies on Climate Change 地球温暖化対策コース		PITD Solution 1080572 Sector : Environmental Management Sub-Sector : Global Warming	
		15 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 To propose and make policies (draft) on Climate Change adaptation and GHG emissions.</p> <p>【Expected Results】 (1)To understand the concept of integration and mainstreaming of Climate Change concerns into sustainable development policies (2)To understand how national communications are prepared as articulated in the UNFCCC Art.12 and other decisions (3)To understand methodologies to prepare a GHG inventory (4)To understand mitigation (including through market mechanisms) and adaptation of Climate Change (5)To develop Action Plan (draft)</p>	<p>【Target Organization】 a national (or local) governmental office which is involved in Climate Change issues and/or focal point of UNFCCC</p> <p>【Target Group】 Current Duties: officer of national (or local) governmental office Experience in the relevant field: those who have experience on Climate Change issues</p>		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Mar / 5 / 2011	
<p>【Preliminary Phase】To make Inception Report</p> <p>【Core Phase in Japan】 (1)~(4)To acquire the necessary skills and techniques on Climate Change issues through lectures, discussions, practical exercises, site visits, etc. •relevance between Climate Change and development activities and policy tools to adopt integrated approach •co-benefits approach which achieve GHG emission reductions as well as environmental improvement •the Climate Change regime(including the UNFCCC and the Kyoto Protocol) and guidelines for national communications •development of GHG inventory including the use of a computer software. (5)To make and present Action Plan</p> <p>【Finalization Phase】 •To share and discuss the Action Plan(draft) in the participants' organizations, and to propose and make policies (draft) on Climate Change adaptation and GHG emissions. •To make and submit Final Report (within 6 months since returning country)</p>	IMPLEMENTING PARTNER	Not yet determined	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		



Ozone Layer Protection and the Global Warming Countermeasures ~ Measures to Reduce the Controlled Substances of the Montreal Protocol and the Kyoto Protocol オゾン層保護と地球温暖化対策～モントリオール議定書と京都議定書規制対象物質の削減対策～		PITD Solution 1080937 Sector : Environmental Management Sub-Sector : Global Warming
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 International regulations for high-GWP gases (HCFC etc.) and the technical direction for collection and destruction of fluorocarbons will be understood and capacity of implementing the fund project to reduce HCFC will be improved.</p> <p>【Expected Results】Participants are able (1) To examine the recent activities, issues on ozone layer protection and high-GWP gases such as HCFC in respective countries, and make an inception report and its presentation. / (2) To explain the relation between the Montreal Protocol and the Kyoto Protocol. / (3) To explain the recent Japan's activity, method, alternative technologies to convert HCFC in the area of cleaning, refrigerant, foam and fumigation, and also are able to explain the system and technologies on collection and destruction of fluorocarbons. / (4) To develop a draft project plan utilizing the multi-lateral fund of the Montreal Protocol. / (5) To introduce each activity after participation in the training course to the next trainees one year later.</p>	<p>【Target Organizations】 Governmental organizations or related public organizations that are in charge of ozone layer protection and high-GWP gases reduction</p> <p>【Target Group】 -Administrative officers who are in charge of ozone layer protection, high-GWP gases reduction, collection and destruction of fluorocarbons and management of the project on multi-lateral fund of the Montreal Protocol. -Individuals with sufficient command of spoken and written English in the aforementioned field.</p>	
CONTENTS	PROGRAM PERIOD	Jan / 16 / 2011 ~ Jan / 29 / 2011
<ul style="list-style-type: none"> <li>• Presentation on actual situation on high-GWP gases, recent approach and issues against global warming, introduction of on-going and up-coming projects</li> <li>• Linkages between the Montreal Protocol and Kyoto Protocol</li> <li>• Trends in discussions at COP (Conference of Parties)</li> <li>• Recent Japan's activity, method, alternative technologies to convert HCFC</li> <li>• Introduction on collection and destruction of fluorocarbons in commercial refrigerators and air conditioners</li> <li>• Introduction of the social and economic system in which each stakeholders can fulfill their responsibilities</li> <li>• Development of a draft project plan related to alternative technologies to convert HCFC or collection and destruction of fluorocarbons based on the knowledge and experiences gained through the training course</li> <li>• Report of activity after returning to home country to monitor how the trainees have applied the knowledge obtained through the training course to domestic policies</li> </ul>	IMPLEMENTING PARTNER	Japan Industrial Conference for Ozone Layer and Climate Protection (JICOP)
	JICA CENTER	JICA Tokyo(Industrial Dev.&Finance)
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Capacity Building for Policy Staff regarding Kyoto Mechanism 京都メカニズム担当者養成コース		PITD Solution 1080793 Sector : Environmental Management Sub-Sector : Global Warming
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Enhancement of capacity of national and local government staffs in designing policies in relation to the implementation of Kyoto Mechanisms</p> <p>【Expected Outputs】</p> <ol style="list-style-type: none"> <li>1. To deepen the understanding on the influence of greenhouse gas accumulation on climate change</li> <li>2. To deepen the understanding on the Kyoto Protocol and its flexible mechanisms</li> <li>3. To deepen the understanding on environmentally friendly technologies, including for the energy conservation and introduction of renewable energies</li> <li>4. To deepen the understanding on roles to be played by developing countries in implementing the CDM</li> </ol>	<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>	
CONTENTS	PROGRAM PERIOD	May / 31 / 2010 ~ Jul / 17 / 2010
<p>[Preliminary Phase] Formulation of Inception Report</p> <p>[Core Phase] Lecture, Practice, Observation, and Discussion on the following subjects.</p> <ol style="list-style-type: none"> <li>1. Influence of the accumulation of GHGs on the climate change.</li> <li>2. Kyoto Protocol and rules of Kyoto Mechanism</li> <li>3. Technologies for GHGs emission reduction including technologies of energy conservation and renewable energy.</li> <li>4. The roles of developing countries in the implementation of CDM projects</li> </ol> <p>[Finalization Phase] Organizational Approval of Action Plan, Submission of Progress Report.</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	In this program, some lectures will be provided by the lecturers from India or China to understand the role of host countries of Kyoto Mechanism. The lecture from Credit buyer also will be provided in the program.

Mitigation of Climate Change in the Southeast Asia and Oceania Region 東南アジア・大洋州地域 地球温暖化緩和対策		PRTD Solution 1084088
Target Countries: Southeast Asia and Oceania Region		15 participants / English
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>	
<p>【Objective】 To strengthen capacity of participants' organizations to develop, implement and evaluate domestic mitigation to address Climate Change in a measurable, reportable, and verifiable (MRV) manner under Nationally Appropriate Mitigation Actions (NAMAs).</p> <p>【Expected Results】 (1) To identify policy and technical challenges for domestic mitigation actions (2) To understand the framework of NAMAs for mitigation actions in a measurable, reportable, and verifiable (MRV) manner, such as in the UNFCCC. (3) To make draft plan on NAMAs. (4) To make Action Plan for tackling mitigation of Climate Change through elaborating strategies to mobilize and introduce mitigation technologies, which are suitable in local conditions.</p>	<p>【Target Organizations】 a national (or local) governmental office which is involved in Climate Change mitigation, such as Focal Point of UNFCCC etc...</p> <p>【Target Group】 Current Duties: officer in charge of Climate Change mitigation (Preferably an officer especially in charge of GHG inventories) Experience in the relevant field: more than 3 years</p>	
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	Jul / 25 / 2010 ~ Aug / 28 / 2010
<p>【Preliminary Phase】To make Inception Report 【Core Phase in Japan】 (1) To make a presentation of Inception Report (2)(3) administrative frameworks and policy tools for mitigation measures • international framework after Bali Action Plan of COP13, and its implication on domestic mitigation actions. • Collective and individual guidance given for developing Climate Change draft action plans, which may include NAMAs. • quantitative evaluation methodologies for Climate Change action plan (eg. GHG reduction). • role of GHG inventory (4) To make and present Action Plan 【Finalization Phase】 • To share and discuss the Action Plan in the participants' organizations • To make and submit Final Report (within 6 months since returning home country)</p>	<b>IMPLEMENTING PARTNER</b>	Not yet determined
	<b>JICA CENTER</b>	JICA Tsukuba(Training&Partnership)
	<b>COOPERATION PERIOD</b>	2010~2012
	<b>REMARKS and WEBSITE</b>	This course newly starts this year.

Capacity Development for Adaptation to Climate Change – Climate Change Analysis (Regional) South America Region 気候変動への適応に係る能力強化(地域別)南米地域		PRTD Solution 1084105
Sector : Environmental Management Sub-Sector : Global Warming		5 participants / English
<b>OBJECTIVE</b>	<b>TARGET ORGANIZATION / GROUP</b>	
<p>(1) 1st year: Capacity development on Climate change analysis and calculation in the South American region. Making the roadmap for analysis paper. (2) 2nd year: Complete the analysis paper. Unit Objective 1: Japan's climate adaptation measure and present effort will be correctly understood. Unit Objective 2: Present condition, technique and case on climate change calculation applying Earth Simulator can be explained Unit Objective 3: Data using the climate change scenario will be applied Unit Objective 4: Climate change calculation and analysis techniques will be mastered</p> <p>★Objective might be changed after preliminary survey</p>	<p>Target Organization University of Technology and Engineering, Meteorological Institute</p> <p>Target Group Meteorological Researchers in charge of Climate Change modeling</p> <p>★Target group might be changed after preliminary survey</p>	
<b>CONTENTS</b>	<b>PROGRAM PERIOD</b>	under planning
<p>• Presentation and discussion on job report of each country. • Presentation on Japanese Climate change measure by Japanese expert. • Calculation, climate change evaluation and analysis on climate system using the numerical model from meteorological laboratory. • Characteristic of atmospheric model using 20km mesh • Japan's contribution on climate change monitoring using Earth Simulator • Applying output data using the climate change scenario. • Calculation analysis using the climate change scenario and verification with own country's data.</p> <p>★Contents might be changed after preliminary survey</p>	<b>IMPLEMENTING PARTNER</b>	Meteorological Research Institute
	<b>JICA CENTER</b>	JICA Tokyo(Economy&Env.)
	<b>COOPERATION PERIOD</b>	2010~2011
	<b>REMARKS and WEBSITE</b>	

Capacity Development for Adaptation to Climate Change –Climate Modering and Analysis アジア地域 気候変動への適応にかかる能力開発 一気候変動予測解析		PRTD Solution 1084141 Sector : Environmental Management Sub-Sector : Global Warming
Target Countries:Indonesia, Philippine, Thailand, Vietnam, Bangladesh	5 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】</p> <ul style="list-style-type: none"> <li>•to develop a capacity for adaptation to climate change,particularly forecast and impact assessment</li> <li>•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</li> <li>•in the last year:impact assessment by using the climate change forecast and</li> </ul>	<p>【Target Organizations】 University of Technology and Engineering ,Meteorological Inatitute 【Target Group】 Meteorological Reseachers in charge of climate change model ilng</p>	
CONTENTS	PROGRAM PERIOD	under planning
<p>★1st and 2nd year</p> <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> <p>★3rd year Impact assesment (under planning)</p>	IMPLEMENTING PARTNER	under planning
	JICA CENTER	JICA Tokyo(Economy&Env.)
	COOPERATION PERIOD	2008～2010
	REMARKS and WEBSITE	Applicants are expected to nominate from same organization and/or person each year(2years) as far as possible. The required condition for 3rd year is under planning.

Promotion of Project Formulation of Clean Development Mechanism in Central Asia and Caucasus Region 中央アジア・コーカサス地域 クリーン開発メカニズム案件形成促進		PRTD Solution 1084280 Sector : Environmental Management Sub-Sector : Global Warming
Target Countries:Central Asia and Caucasus Region	4 participants /	Russian
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>[Objective] The formulation and registration of CDM projects will be promoted in the respective countries.</p> <p>[Expected Outputs]</p> <ol style="list-style-type: none"> <li>1. To grasp the problems which the CDM related organizations in their countries have in the process of project formulation (before coming to Japan).</li> <li>2. The system to provide information for the stakeholders of CDM projects will be established in the respective DNAs. (the 1st year)</li> <li>3. The guideline for the formulation of CDM projects considering the situations of the respective countries will be drafted. (the 2nd year)</li> <li>4. The system to provide the consultation for the registration of CDM projects will be established in the respective DNAs. (the 3rd year)</li> <li>5. To contribute to the solution of the problems which CDM related organizations have, with fruits of the training program in Japan (after going back to participants' own countries).</li> </ol>	<p>【Target Organization】 Designated National Authorities (DNA) or other corresponding organization like National Focal Points (NFP) and CDM related offices.</p> <p>【Target Group】 Those who has contact with private sector, and is engaged in the CDM project formulation and registration. Those who has experience in this field more than 1 year.</p>	
CONTENTS	PROGRAM PERIOD	Nov / 21 / 2010 ~ Dec / 22 / 2010
<p>[Preliminary Phase] Formulation of Inception Report [Core Phase] Lecture, Practice, Observation, and Discussion on the following subjects.</p> <ol style="list-style-type: none"> <li>1. To deliberate about the way of information service considering credit buyer's demand and experiences in leading host countries of CDM</li> <li>2. To draft the guideline for proper CDM project formulation and registration application considering CDM project potential in the respective counties, demand of credit buyers and possible difficulties in the process from project formulation to the registration.</li> <li>3.To acquire various perspectives needed for the project formulation consultation through PDD formulation practice.</li> <li>4. To make the action plan.</li> </ol> <p>[Finalization Phase] Organizational Approval of Action Plan, Submission of Progress Report.</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2009～2011
	REMARKS and WEBSITE	

<b>Nagoya University Global Environmental Leaders Program: Climate Change, Water and Waste Management and Biodiversity Conservation (Master's Degree: Environmental Studies / Engineering)</b> <b>名古屋大学国際環境人材育成-地球温暖化対策、水・廃棄物対策、生物多様性-(長期)</b>		LONG-TERM Leaders 1081210
		Sector : Environmental Management Sub-Sector : Global Warming
		4 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objective】</b> Policymakers and technicians will develop their capability of: 1) proposing and practicing approaches to solve the problems with a correct understanding of local situations, 2) coping with cross-sectoral and emerging problems, and 3) communication in the policy dialogues etc. that suits conditions of local society.	Agencies of central/local governments, private companies, or higher education bodies related to climate policy and mitigation technology.	
<b>【Expected Results】</b> (1)To acquire the theories, advanced knowledge and the problem-solving way of thinking. (2)To improve practical abilities through the internship and seminars to solve the problems in the original countries of the participants. (3)To acquire the ability to wrap up and publicize special reports logically and make actions based on them.		
CONTENTS	PROGRAM PERIOD	Sep / 17 / 2010 ~ Sep / 30 / 2012
This program aims to develop global environmental leaders who are able to propose practical measures to solve the problems of climate change.  (1)The participants will take lectures, workshops and seminars under this course as required by the curriculum model and acquire credits (at least eight) to obtain the degree. (2)The participants will have a training or internship for a certain period in partner organizations from the Chubu Consortium for Environmental Leaders Development (cooperating body of this program). (3)The participants will complete a dissertation based on research instruction by main and assistant supervisors. The dissertation should identify and analyze an important issue in their original country, and provide measures to be taken to solve it.	IMPLEMENTING PARTNER	Global Environmental Leaders Program, Nagoya University
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	

<b>Workshop on Administration of Environmental and Social Consideration Process for Implementation of a Japanese ODA Loan Project</b> <b>円借款事業における環境社会配慮実務</b>		PITD Leaders 1080106
		Sector : Environmental Management Sub-Sector : Other Environmental Management Issues
		36 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objective】</b> This course aims at enhancing the capability of the officers in charge of Environmental and Social Considerations (ESC) to implement appropriate ESC and helping them to acquire the requirements for implementation of a Japanese ODA Loan project	<b>【Target Organizations】</b> (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	
<b>【Expected Result】</b> (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	<b>【Target group】</b> <Job title> Director, assistant director or equivalent <Experience> More than five years experience in the EIA field such as in the divisions in charge of environmental and social consideration or EIA <Other>Countries and organizations in which the Japan's ODA Loan project will be implemented	
CONTENTS	PROGRAM PERIOD	May / 23 / 2010 ~ Jun / 5 / 2010
[Preliminary Phase] Formulatio of Inception Report  [Core Phase] (1) Experience of environmental and social consideration for ODA projects and its lessons, lessons and learns of large scale development project in Japan, Project economic analysis of a project and environmental and social consideration (2) Environment and Social Consideration of JICA (3) Overviews of EIA (Social Environmental Assessment, EIA Process (Screening, Scoping, Mitigation, Public Hearing & Transparency /Accountability, Monitoring & Follow-up) (4) Country Report Presentation, Case Study, Environmental Assessment law in Japan(Comparative study), Writing on findings through the program	IMPLEMENTING PARTNER	Overseas Environmental Cooperation Center, Japan(OECC)
	JICA CENTER	JICA Tokyo(Economy&Env.)
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	

Pollution Control for Hazardous Substances in the Environment 環境中の有害汚染物質対策		PITD Leaders Sector : Environmental Management Sub-Sector : Other Environmental Management Issues	1080224
		6 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>&lt;Objective&gt; Participants will acquire the abilities to evaluate on the environmental pollution, and formulate measures to prevent pollution due to hazardous substances.</p> <p>&lt;Outputs&gt; (1) Understand recent conditions and history of pollution caused by hazardous substances, including Minamata disease, etc. caused by metal contaminants. (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 of environmental monitoring. (5) Understand methods to identify sources of environmental pollution due to metal contaminants</p>	<p>&lt;Target organization&gt; Governmental Organization (central/local) in charge of environmental administration. &lt;Target Group&gt; (1) University graduates with a chemistry background, or the equivalent (2) Key administrative engineers (not including researcher) in the environmental field with at least 3 years of experience</p>		
CONTENTS	PROGRAM PERIOD	May / 31 / 2010 ~ Aug / 7 / 2010	
<p>(1) Overview of Pollution Due to Hazardous Substances (Lecture) (2) Health Impacts, etc., of Hazardous Substances (Lecture) (3) Environmental Measures by Local Government (Lecture) (4) Environmental Monitoring (Lecture/Practice) (5) Studies to Trace Pollution Sources (6) 3R Promotion Techniques (Lecture/Observation) (7) Pollution Control Technologies (Facility Tour) (8) Action Plan (Formulation/Presentation)</p> <p>(Follow-up Activity after the training in Japan) Verification of Manifested Effects of Training by Follow-up through JICA-GEC Network.</p>	IMPLEMENTING PARTNER	Global Environment Centre Foundation(GEC)	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE	Participants are required to bring some photos, slides, or data of conspicuous examples of hazardous substances pollution for discussion.	

Environmental Education Focused on Fresh Water Environment -For Tertiary Level Teaching Staff- 水環境を主題とする環境教育		PITD Trainers Sector : Environmental Management Sub-Sector : Other Environmental Management Issues	1080991
		10 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Action plan that spread and develop environmental education will be formulated in participatory organization. The problems of environmental education will be pointed out. The idea and aim of environmental education can be explained. The skill to make textbook/program and skill of presentation will be acquired. Action plan that spread and develop environmental education will be formulated. Action plan that spread and develop environmental education will be shared and examined.</p>	<p>University/College lecturers or equivalent, Engaged or expected to engaged in environmental education 1) be an University/ college lecturer or the equivalent * This course is focused on primary and secondary education 2) be engaged or expected to engaged in environmental education 3) Experience in the relevant field: have more than 3 years experience in the field of environmental education</p>		
CONTENTS	PROGRAM PERIOD	Aug / 16 / 2010 ~ Oct / 15 / 2010	
<p>Making and submission and presentation of country report Lectures and practice on environmental idea, problem, and General public sanitation, Lectures, discussion, exercises about environmental education, making textbook •Environmental education in another countries networking among citizen, school, government •lecturers for university students by participants •Making and presentation of action plan •Sharing , examination and finishing action plan.</p>	IMPLEMENTING PARTNER	to be decided	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

<b>Risk Management and Residue Analysis of Chemicals for Environmental Safety</b> <b>環境安全のための化学物質のリスク管理と残留分析</b>		PITD Solution 1080811
		Sector : Environmental Management
		Sub-Sector : Other Environmental Management Issues
Target Countries: Signatory countries of Stockholm Convention on POPs	8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objective】</b> A draft of project for improving / diffusing the comprehensive risk management and monitoring technology will be formulated by relevant governmental organizations and this draft will be shared among those concerned. <b>【Outputs】</b> (1) To be able to explain about basic concept of risk management based on risk assessment of chemicals (2) To be able to explain about principles and operation of analytical techniques related to monitoring of chemicals in environmental resources & agricultural products (3) To acquire analytical techniques & skills in instrumental analysis, immunoassay, and bioassay (4) To submit reports at the end of 1st & 2nd half periods with given theme, and to formulate action plan on use of acquired knowledge and techniques (5) The action plan will be submitted and studied for its feasibility.	<b>【Target Organizations】</b> Administrative organizations in charge of risk management and research institutes in charge of monitoring of environmental and industrial chemicals. <b>【Target Group】</b> (1) Current Duties: be an administration officer / supervisor in charge of risk management or a technical officer and researcher in charge of monitoring of environmental chemicals (2) Experience: have more than 3 years' experience in the field of risk management or monitoring of environmental chemicals. (3) Educational Background: be a graduate of university or equivalent	
CONTENTS	PROGRAM PERIOD	Feb / 28 / 2011 ~ Aug / 13 / 2011
<b>【Preliminary Phase】</b> Formulation and submission of Job Mission Report <b>【Core Phase】</b> <u>Related to output (1):</u> Lectures and Presentation Basic concept of risk management of chemicals for environmental safety, outline of environmental chemicals, risk evaluation, risk management and risk communication, effects on ecosystems, human health etc. <u>Related to output (2)(3):</u> Lectures and Lab Practices Chemical analysis for monitoring (soil, water, air & agricultural/livestock products), instrumental analysis, bioassay, and immunoassay of POPs, etc. <u>Related to output (4):</u> Workshop and Presentation Workshop and Guidance for Action Plan formulation. <b>【Finalization Phase】</b> Submission of final report to JICA within 6 months	IMPLEMENTING PARTNER	Hyogo Environmental Advancement Ass'n, Kobe Univ., Hyogo Pref. Technology Center, etc.
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	As legal restriction on environmental chemicals in Japan, important laws and regulation will be introduced. For producing realistic action plan, a technical advisor will be appointed for each participant.

<b>Industrial Pollution Control Management for Middle Eastern Countries</b> <b>中東地域産業環境対策</b>		PRTD Solution 1084021
		Sector : Environmental Management
		Sub-Sector : Other Environmental Management Issues
Target Countries: Middle Eastern Countries	7 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<b>【Objectives】</b> This program aims to enable administrators engaged in the management of industrial environments to formulate improvement plans in environmental issues/problems at work. <b>【Outputs】</b> (1) To master air pollution control administration and pollution control technique, and propose a solution for the issue. (2) To master water pollution control administration and pollution control technique, and propose a solution for the issue. (3) To master waste disposal administration and recycling technique, and propose a solution for the issue. (4) To understand measurement of environmental pollutants and their affect on the human body and the nature, and propose a solution for the issue. (5) To formulate and propose Action Plan, utilizing contents of the program.	<b>【Target Organization】</b> Government Organization in charge of Industrial Pollution Control <b>【Target Group】</b> 1) Current Duties: be a technical administrator in charge of industrial pollution control. 2) Experience in the relevant field: have more than 3 years' occupational experience in the field of industrial pollution control 3) Educational Background: be a graduate of university, majoring in engineering or the equivalent. 4) Language: be competent in spoken and written English	
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Apr / 29 / 2011
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) (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 and WEBSITE	