

3. Water Resources / Disaster Management

Training for Expert on Flood-related Disaster Mitigation 洪水関連災害防災専門家育成研修		PITD Leaders 1080043 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		20 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 The program objective is to develop the participant's capacity to practically manage the problems and issues concerning water-related disasters for contributing to mitigation of water-related disasters in their countries. 【Expected Results】 1. To be able to explain basic concept and theory on Generation Process of Water-related Disasters, Control measures for Landslide and Debris Flow. 2. To be able to explain basic concept and theory on Water-related Hazard Risk Evaluation, Disaster Risk Management Policy and Technologies. 3. To formulate the countermeasures (Master Thesis and Action plan) to solve the problems and issues concerning water-related disasters for applying techniques and knowledge acquired through the training course in their countries.	【Target Organizations】 This program is designed for the governmental organization concerning to river management or water-related disaster mitigation. 【Target Group】 1. Target person: administrative officers and/or engineers and/or researchers in the field of water management in above-mentioned organization. 2. Experience in the relevant field: more than 3 years' experience. 3. Academic ability: be university graduates in civil engineering, water resource management, or disaster mitigation, etc. or have an equivalent academic background.		
CONTENTS	PROGRAM PERIOD	Sep / 28 / 2010 ~ Sep / 17 / 2011	
【Preliminary Phase】 To make an Inception Report on current situation and problem of water-related disasters in their countries. 【Core Phase in Japan】 To acquire the necessary skill and technique for reducing water-related disasters through lectures, discussions, research, practical exercises and site visits, etc. (1)Generation Process of Water-related Disasters, Control measures for Landslide and Debris Flow •Hydrology, Flood hydraulics and sediment transport, Mechanics of sediment transportation and river changes, Control measures for landslide & debris flow, etc. (2)Water-related Hazard Risk Evaluation •Disaster management policy, Disaster risk management, Integrated Flood Risk Management, Local disaster management and hazard mapping, etc. (3)To formulate flood countermeasures •Individual study (Formulation of Master thesis, Action Plan)	IMPLEMENTING PARTNER	Public Works Research Institute (PWRI), National Graduate Institute for Policy Studies (GRIPS)	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE	Participants who have successfully achieved the required credits will be awarded a Master's Degree, 'Master of Disaster Management' by GRIPS and PWRI.	

Non-Revenue Water Management 上水道無収水量管理対策		PITD Leaders 1080229 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		15 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The objective is to learn waterworks maintenance and management activities and the Japanese system as well as developing the capacity to apply them in own duties. Through the program, participants are expected to: 1. Acquire a comprehensive knowledge concerning various problems relating to non-revenue water 2. Understand the operation of leakage detectors 3. Understand the classification of leakage prevention works and diagnosis of the water distribution volume 4. Understand leakage prevention planning 5. Understand practical knowledge and techniques for planning, designing, construction and management of leakage prevention measures	【Target Organizations】 1. Waterworks bureaus of local government, waterworks public corporations, administration bodies in charge of water resources 2. Special organizations maintaining and managing waterworks systems 【Target Group】 1. Technology university graduates or equivalent professional qualifications in this field 2. Individuals with at least 5 years of work experience in this field 3. Individuals with a sufficient command of spoken and written English		
CONTENTS	PROGRAM PERIOD	Nov / 1 / 2010 ~ Dec / 28 / 2010	
Program Contents Following contents are planned as lectures, practice and site visit. 1. Outline of non-revenue water management 2. Outline of waterworks facilities and leakage prevention 3. Operation of leakage detectors 4. Leakage detection 5. Leakage prevention in the planning stage 6. Leakage prevention in the design stage 7. Leakage prevention in the construction stage 8. Water meter, mapping management, measures for illegal use, water charges 9. Measures in case of disaster	IMPLEMENTING PARTNER	Nagoya Waterworks and Sewerage Bureau	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE	The applicant should prepare a Country Report when applying. "Non-revenue water" is not defined as illegally used water, thus the program provides opportunities to learn about leakage management technology. http://www.water.city.nagoya.jp/english/	

Comprehensive Management of River and Dam 総合的な河川及びダム管理		PITD Solution 1080065 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 To develop the draft plan for improving on flood/sediment disaster measures, water resources management policies etc, in each country.</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> To clarify the problems related on water resource management in participating organizations through formulating the Inception Report. To get the knowledge related to trends of the world in the water sector and the history of river projects and the current river system in Japan. To get knowledge on planning and design techniques about flood control, water use and dams, etc. To prepare an Interim Report on how to improve or get over the problems in their own countries by making use of the knowledge gained. To revise the Interim Report (action plan) to be authorized by participants organization, and prepare and submit the Final report. 	<p>【Target Organizations】 This course is design for the Governmental Organization in charge of water issues to solve water problems which are flood control and/or water resources development.</p> <p>【Target Group】</p> <ol style="list-style-type: none"> Target person: Administrative officer and/or engineer in charge of water issues to solve water problems which are flood control and/or water resources development. Experience in the relevant field: more than 3 years' experience in the field of flood control or in water resources development projects. 		
CONTENTS	PROGRAM PERIOD	Aug / 29 / 2010 ~ Dec / 4 / 2010	
<p>【Preliminary Phase】To make an Inception Report on present situation and problems related flood control , water resources management in their countries.</p> <p>【Core Phase in Japan】To understand the overall view of water use and water resource management through lectures, discussions, practical exercises and site visits.</p> <ol style="list-style-type: none"> History, system and legislation for river works <ul style="list-style-type: none"> History, system and legislation for river works in Japan World trends in the water sector History of water works and structural and non- structural measures in Japan <ul style="list-style-type: none"> Planning and design for flood control, erosion control in Japan Water utilization plan / Hydrological observation in Japan Dam project in Japan <ul style="list-style-type: none"> Dam design and geological survey, construction works and management in Japan Formulation and Discussion on Interim Report. <p>【Finalization Phase】To share the Interim Report in the participants' organization, and develop/submit the Final report to JICA.</p>	IMPLEMENTING PARTNER	Infrastructure Development Institute (IDI), Public Works Research Institute (PWRD), etc.	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Integrated Water Resources Management 統合的水資源管理		PITD Solution 1080839 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		15 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 To formulate a fundamental direction for improving the implementation system of integrated water resource management in the selected model basin(s).</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> To preliminarily identify and define work-related problems in water resource management departments / organizations To identify and define issues / problems concerning implementation of integrated water resource management. To make improvement plans for priority implementation issues in water resource management To examine the feasibility of the draft improvement plans in the participants' water resource management departments / organizations 	<p>[Target Organizations] Department working on water resources management in water relevant administrative agencies and river basin organizations</p> <p>[Target group]</p> <p><Position> To be a officer of the level between a director and a director general of the bureau or equivalents belonging to water resources related ministries of central/local government (e.g. Ministry of Water Resources and Irrigation)</p> <p><Career>To have more than 15 years of occupational experience in water resources management,</p> <p><Others> To be nominated by their government in accordance with the official procedure</p>		
CONTENTS	PROGRAM PERIOD	Jul / 25 / 2010 ~ Aug / 7 / 2010	
<p>[Preliminary Phase] Formulation of the Job Description Report</p> <p>[Core Phase] (1)To identify and define issues / problems regarding the basin(s) in which participants are involved (Information collection) (2)The implementation system of water resource management in the respective countries, and issues / problems regarding the basin(s) in which participants are involved (Oral presentation, Discussion), The cases of integrated water resource management in Japan (Lecture, Site Visit), The implementation system of water resource management and the related legislation in Japan (Lecture, Site Visit) (3)PCM to make improvement plans (Exercise), Oral presentation of draft improvement plans (Presentation, Discussion)</p> <p>[Finalization Phase]</p> <p>(4)Discussion and examination of draft improvement plans within the participants' water resource management departments / organizations (Discussion with related persons)</p>	IMPLEMENTING PARTNER	Under Planning	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE		

Effective Use of Industrial Water and Re-use of Waste Water 工業用水使用合理化及び廃水再生利用		PITD Solution 1080074 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		8 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Possible solutions to policy challenges relating to effective use of industrial water and re-use of waste water will be studied and a policy /plan for the solutions will be formulated.</p> <p>【Expected Results】To achieve this program objective, participants are expected to;</p> <p>1. Understand and explain the necessity of policy on the effective use of industrial water and reuse of waste water. Also, participants are expected to be able to explain the difference of industrial water policy between Japan and the respective countries.</p> <p>2. Understand the basic technologies on effective use of water and reuse of waste water at plant.</p> <p>3. Understand the importance of the required policy planning and implementation to promote the effective use of water and reuse of waste water.</p> <p>4. Develop and present a feasible action Report of the effective use of industrial water and reuse of waste water in the respective countries.</p>	<p>【Target Organizations】 Policy planning administration related with industrial water supply</p> <p>【Target Group】 (1st &2nd year) Administrative officers who are in charge of practical works (3rd year) Senior/middle management officers who are responsible for the decision making in the target organization. -Have at least five (5) years of experience in the aforementioned organization. -Individuals who have already mastered basic water treatment technologies in the university.</p>		
CONTENTS	PROGRAM PERIOD	Nov / 14 / 2010 ~ Dec / 18 / 2010	
<p>(1) Presentation of the current situation on water, industrial water and waste water in the respective countries</p> <p>(2) Lecture on the necessity of effective use of industrial water and re-use of waste water</p> <p>(3) Comparison & Analysis the difference between trainee's countries and Japan</p> <p>(4) Field trip to plants which use/reuse the water effectively</p> <p>(5) Lecture on the basic technologies of effective use of water and reuse of waste water</p> <p>(6) Lecture on water treatment technologies which are easy to apply at developing countries</p> <p>(7) Lecture on the policy, law and regulation of industrial water and the role of METI (Ministry of Economy, Trade and Industry)</p> <p>(8) Lecture on the financial support system in Japanese developing assistance policy</p> <p>(9) Development, Presentation and Discussion of Action Plan</p>	IMPLEMENTING PARTNER	Water Reuse Promotion Center	
	JICA CENTER	JICA Tokyo(Industrial Dev.&Finance)	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE		

Integrated Basin Management for Lake Environment 湖沼環境保全のための統合的湖沼流域管理		PITD Solution 1080988 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>By making the better use of the knowledge and technology of this session, it will help making and implementing the action plan of the lake basin management properly in the countries of the participants who are technical officials, policy makers, researchers.</p> <p>To be able to understand and explain the various problems, potential values of the lake, and how to utilize it as the sustainable resource,</p> <p>To be able to understand and explain the administrative system, policy, citizens participation, technology, information, and funding, then utilize such knowledge as to work on the lake basin governance.</p> <p>To understand a sustainable lake basin management plan and how to implement it, then to be able to make an action plan.</p>	<p>1) Officer/ Researcher/ Engineer in charge of lake/wetland water management</p> <p>2) Experience : more than five (5) years' experience in the field</p> <p>3) Age: twenty-five (25) – forty (40) years of age</p> <p>4) Language: have a competent command of spoken and written English</p>		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Mar / 18 / 2011	
<p>*sharing the experience of the lake basin management</p> <p>*aspect of the lake from the natural science point of view</p> <p>*utilization of the lake resources</p> <p>*administrative system and its structure</p> <p>*effective choice of the policies, incentive and regulation</p> <p>*citizens participation, value, education</p> <p>*technical support</p> <p>*information, funding</p> <p>*making a plan and its implementation</p> <p>*making an action plan</p>	IMPLEMENTING PARTNER	International Lake Environment Committee Foundation	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE	http://www.ilec.or.jp/	

Integrated Water Resources Management for Middle East 中東地域統合の水資源管理		PRTD Trainers 1084233 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
Target Countries: Middle East		12 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】This course aims at the capacity development of the participants on the planning and implementation of IWRM.</p> <p>【Expected Results】</p> <p>(1)To be able to explain the concept of IWRM</p> <p>(2)To understand causes of water conflicts among sectors, up-and-downstream basins and regions</p> <p>(3)To be able to explain the skills for monitoring and assessment of water resources potential and demand</p> <p>(4)To understand the skills for planning of integrated water resources management and to explore the skills to ease water conflicts</p>	<p>[Target Organization]</p> <p>Administrative organizations concerning with water resources management, which belong to the central/local government</p> <p>[Target Group]</p> <p>(1)To be responsible for a plan on implementation of IWRM in an administrative organization or a department of central/local government concerning with IWRM</p> <p>(2)To have more than five years of experience</p> <p>(3)To be over 35 and under 45 years old, in principle</p>		
CONTENTS	PROGRAM PERIOD	Jan / 16 / 2011 ~ Feb / 5 / 2011	
<p>[Preliminary Phase] Formulation of country report on the situation of IWRM in each country</p> <p>[Core Phase] (1)Outline of IWRM, Global warming issues and its impact, Water resources and environment, (2)Country Report Presentation, Water conflict in Japan, Water conflict in the World, Case Study on Conflict Management, (3) Development, Utilization and Management of Surface Water Development, Utilization and Management of Groundwater, Utilization of Non-conventional water (reclaimed water, desalination, etc), Water demand management (domestic water and agricultural water), Public Relationship on water resources, Monitoring for land-subsidence (groundwater level), Integrated dam / reservoir management for flood and drought management, Water supply and demand control (waterworks and dam), (4) IWRM planning with conflict management, Consensus building for river development plan, Discussion on Conflict Management</p> <p>[Finalization Phase] Under Planning</p>	IMPLEMENTING PARTNER	Under Planning	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Water Resource Conservation Management in Islands Area 島嶼における水資源保全管理		PRTD Trainers 1084030 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
Target Countries: Oceania (Samoa, Tonga, Vanuatu, Marshall, Nauru, Cook, Niue)		12 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Participants will acquire knowledge and skills about water conservation management and effective use which is applicable to islands area as the contribution for the human resource development in the field of water resources of their own countries.</p> <p>To acquire and to be able to explain about Japanese policy of water resources and integrated water resources management</p> <p>To acquire and to be able to explain about methods of development of the source of water in islands area</p> <p>To acquire and to be able to explain about methods of conservation management of sources of water in islands</p> <p>To acquire about slow filtration system and water supply system of Miyako Islands and to be able to plan to introduce their own countries</p> <p>To acquire about concepts and works of Japanese water supply system, and to be able to plan of water supply facilities improvement planning based by actual situations of their problems</p>	<p>Authority or government in charge of water supply in Pacific islands countries.</p> <p>A engineer or government officer who has engaged in organization mentioned above.</p> <p>At least more than 3 years' experience in the field of water supply</p>		
CONTENTS	PROGRAM PERIOD	Jul / 13 / 2010 ~ Sep / 1 / 2010	
<p>To study Japanese policy of water resources, and to understand the concept of integrated water resources management.</p> <p>To acquire the skills of method of techniques of water resources development to utilize water resources effectively.</p> <p>To acquire knowledge and skills of water resources conservation management which is important for sustainable use through lecture, case study and field visits mainly to Miyako Island that has similar condition of meteorological, geological, type of sources of water etc..</p> <p>To acquire techniques of slow sand filtration which has unique specialities (e.g. applicabilities to islands area, low cost and easy to maintainance etc.) through lecture of theory, fields visits and training of field management.</p> <p>To train about the leakage of water, Non-Revenue water management, and water quality control which are caused problem in Oceania regions. Besides, participants will plan their own countries case planning based on their countries condition through this curriculum.</p>	IMPLEMENTING PARTNER	Okinawa Prefectural Enterprise Bureau	
	JICA CENTER	JICA Okinawa	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Management of Urban Water Systems for Southeast European Countries 南東欧地域 都市上下水道事業管理		PRTD Solution 1084184 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】Every participant shares and implements "Action Plan" in respective organization, and then officially reports its progress to JICA</p> <p>【Expected Outputs】</p> <p>1) To grasp the outline of urban water service in Japan, and identify issues of their own organizations</p> <p>2) To identify the issues of financial management of urban water systems of participants' organization</p> <p>3) To identify issues of water treatment systems and water quality control to improve quality of the water.</p> <p>4) To identify issues in maintenance of urban water service facilities of participating organizations.</p> <p>5) To propose "Action Plan" describing appropriate methods and techniques to improve urban water systems management</p>	<p>【Organization】 governmental, semi-governmental, or corporate organizations in charge of management of urban water systems</p> <p>【Personal Qualifications】</p> <p><Current Duties> managerial officers, staff members, government officers, engineers (※being engineer is NOT an essential requirement; however, daily involvement to urban water systems-related work is indispensable.)</p> <p><Experience>more than 3 years working</p>		
CONTENTS	PROGRAM PERIOD	Jun / 29 / 2010 ~ Jul / 31 / 2010	
<p>【Preparatory Phase】each participant prepares Job Report to identify each issues</p> <p>【Core Phase】</p> <p>(1) water supply/sewerage administration in Japan, water supply/sewerage administration in sapporo, latest water treatment plant</p> <p>(2) financial management system(basic theory and actual case), collection of water charge, asset management of water and wastewater treatment plants, PCM</p> <p>(3) global trend of watershed management, new concepts of water management, water purification plant and water quality control, advanced wastewater treatment and reuse, assessment of the human health risk , new technology for water/wastewater treatment, new trends and techniques (membrane), world water situation</p> <p>(4)physical structures/networks maintenance of distribution system,leak prevention</p> <p>(5)discussion, action plan preparation/presentation, PCM workshop</p> <p>【Finalization Phase】every participant share its AP in home organization, then reports its progress to JICA</p>	IMPLEMENTING PARTNER	Center for Environmental & nano bio engineering in Hokkaido University	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE		

Water Supply Management for Middle Eastern Countries ~Maintenance of distribution pipeline and Leakage prevention~ 中東地域 上水道維持管理~配水管網の維持・漏水防止~		PRTD Solution 1084073 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Water Resources Management	
Target Countries: The Middle Eastern Countries		6 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Course Objective】The improvement plan prepared by each participant can be presented and shared with the appropriate people in his/her organization.</p> <p>【Outputs】(1) Job/Country Report should summarize the challenges of techniques of water supply management in each country (2) Each participant can outline the current water supply management in Japan (3) Each participant can explain the practical knowledge and techniques necessary for the establishment of an appropriate distribution network (4) Each participant can explain practical knowledge and techniques necessary for a leakage prevention system (5) Utilizing knowledge and techniques gained through the training, each participant can compile an improvement plan to solve problems in his/her own country's water supply projects (6) The improvement plan prepared by each participant can be presented and shared with the appropriate people in his/her organization</p>	<p>【Target Organizations】 The organizations which implement the practical operations such as planning, designing, operation and maintenance of distribution pipeline and investigation and repair of underground leakage.</p> <p>【Target Group】</p> <p>1) Current job: engineers who perform the practical operations of design and maintenance/control in the field of water supply projects.</p> <p>2) Experience in water supply projects: have more than five (5) years of work experience in water supply projects.</p>		
CONTENTS	PROGRAM PERIOD	Jun / 22 / 2010 ~ Aug / 8 / 2010	
<p>【Preliminary Phase】</p> <p>(1) Preparation of Job/Country Report Presentation <Job/Country Report presentation will be held at the beginning of the core phase in Japan></p> <p>【Core Phase in Japan】</p> <p>(2) Overview of the water supply management in Japan</p> <p>(3) Maintenance of distribution network (Lecture + Exercise)</p> <p>(4) Operation of leak prevention (Lecture + Exercise)</p> <p>(5) Formulation of improvement plan (Action Plan)</p> <p>【Finalization Phase】</p> <p>(6) Share the improvement plan (Action Plan) within the participant's organization and submit the progress report to JICA</p>	IMPLEMENTING PARTNER	Water Works Bureau The City of Hiroshima	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE	<p>* This training course does not include Water Recourse Development, Advanced Drinking Water Treatment, and utilization of well water or ground water as water resources.</p> <p>*Web site: http://www.water.city.hiroshima.jp/english/index.html</p>	

Policymaking of Water Environmental Management in Middle East, and African countries 中東・アフリカ地域 水環境管理政策		PRTD Solution 1084297 Sector : Water Resources / Disaster Management Sub-Sector : Comprehensive Water Resources Management	
Target Countries: Middle East and Africa		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Objective A provisional policy plan to secure safe and stable water resources, and improve water environment shall be proposed by the participating organizations in the model area in the target countries. Expected Results1: To deepen understanding on water sources, safe and stable water supply system and environmental management policy Expected Results2: To deepen understanding on methodologies of non-conventional alternatives Expected Results3: To understand the methods on environmental assesment, monitoring, analsis, and clarify the issues needed for sustainable planning Expected Results4: To propose an action plan to secure safe and stable water resources, and improvement of water environment based on its problem analysis. Expected Results5: To submit a progress report and final report which are further considered at the respective organization based on the action plan	Target Organizations: This program is designed for ministries and agencies in charge of water resources & supply and environment management. Target Group: -Current Duties: be the government official in planning and policy making in the field of water resources development or environmental management in central government bodies and associating agencies. (Target Level (year): Director Level (1st year) , Young Officer Level (2nd year, this year), Section Manager Level (3rd year)) -Experience in the relevant field: have more than 5 years' experience in the field explained above		
CONTENTS	PROGRAM PERIOD	Aug / 1 / 2010 ~ Aug / 29 / 2010	
1. Lecture and Practice on (1)Development and management of surface water and groundwater, (2)Distributed type of safe water supply system and ecological sanitation, (3)Eco-engineering applications to conserve and restore aquatic eco-system and water quality environment, (4)Water policy with non-conventional alternative strategies including recycling waste water, desalination and rainwater harvesting 2. Lecture, Practice and Field Observation on (1)Rainwater harvesting and infiltration to recharge groundwater, (2)Advanced wastewater treatment and recycling reclaimed water applying simple and low cost technologies, (3)Conservation and restoration of aquatic eco-system and water quality environment applying bio-manipulation, (4)Appropriate technology of ecological slow sand filtration and bio-toilet 3. Lecture, Practice and Workshop on (1)Methods on planning and evaluation based on Project Cycle Management(PCM), (2) planning and evaluation of projects 4. (Before training) Making of Inception report and issue analysis sheet, (In Japan) Updating issue analysis sheet and making action plan	IMPLEMENTING PARTNER	JICA Shikoku	
	JICA CENTER	JICA Shikoku	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE		

Waterworks Engineering 水道技術者		PITD Trainers 1080763 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
		8 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 Each participant shares and implements its action plan in respective organization, and reports progress to JICA 【Expected Outputs】 (1)To acquire knowledge and experiences to improve water treatment facilities and water treatment method in the participant's country (2)To acquire knowledge and experiences to improve water distribution, service installation, maintenance, and water charge systems in the participant's country (3)To acquire knowledge and experience to improve leak prevention in the participant's country. (4)To acquire knowledge and experiences to improve water quality control in the participant's country (5)To draft an action plan to clarify how to apply training in japan	【Target Organization】 Governmental, semi-governmental, or corporate organizations in charge of public water supply. 【Personal Qualification】 <Current Duties> Be Waterworks engineers <Experience> At least three (3) years of practical experience for those university graduate or equivalent; OR at least seven (7) years of practical experience for those polytechnic graduates or equivalent <Age> Under 40 years old		
CONTENTS	PROGRAM PERIOD	Jun / 29 / 2010 ~ Sep / 18 / 2010	
【preparatory phase】 each participant prepares country report to identify issues 【core phase】 (1) visit/structure/design/operation of water purification plant, advanced water purification (membrane, desalination) (2) distribution resorvoir/pipe laying plan, pumping station, maintenance, design & quantity calculation for new installation, construction site, networks analysis, manufacturing plant, metering, charge collection, call center, metering site, environmentally conscious management (3) leak prevention/planning/detection/on-site prevention method, block metering (4) water quality control, water source & algae, design/pump/drilling of pumping station, bioassay (5) country repot, problem analysis, discussion, AP consultation/presentation 【finalization phase】 share the knowledge based on action plan, then report its progress to JICA	IMPLEMENTING PARTNER	Waterworks Bureau, City of Sapporo	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE	Candidates are strongly required to actively participate the training course, with strong will to improve their water supply system.	

Urban Waterworks Engineering 都市上水道技術者養成		PITD Trainers 1080083 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
		10 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】 Participants acquire wide knowledges about waterworks and get abilities to improve the waterworks in respective countries with integrated views, and also share those with colleague after completion of the training in Japan.</p> <p>【Outputs】 (1) To understand the system of purification plants and purified water processes (2) To understand water transmission and distribution system, and maintenance including water leakage control (3) To understand securing good water resources and water quality control (4) To get ideas on the effective management of waterworks considering environmental condition (5) To prepare and present an Action Plan using what have been acquired through the course</p>	<p>【Target Organizations】 Organization of mainly managing waterworks 【Target Group】 Current Duties: be senior technical officers in charge of waterworks engineering in central or provincial government, or in local bodies. Experience in the relevant field: have at least ten (10) years of practical experience. Age: recommended to be between thirty-five (35) and fifty (50) years.</p>		
CONTENTS	PROGRAM PERIOD	Sep / 28 / 2010 ~ Oct / 23 / 2010	
<p>(1) Lectures and practices regarding the techniques of purified water processes and design of purification plant for operating and maintaining purification plant (2) Lectures and practices by providing the examples of water transmission and distribution system, and maintenance method including water leakage control. (3) Lectures and practices for securing good water resources and water quality control (4) To learn examples in Japanese knowledge and know-how for effective management of waterworks considering environmental condition (5) To prepare and present an Action Plan to be approved by participants' organization by the effort of each participant, using knowledge, techniques, and ideas acquired through the course</p>	IMPLEMENTING PARTNER	Yokohama Water Works Bureau	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Operation and Maintenance of Urban Water Supply System 都市上水道維持管理		PITD Trainers 1080870 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
		12 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p><Course Objective> Applicable knowledge techniques are shared among engineers in the organizations which implement operation and maintenance of urban water supply system in participating countries.</p> <p><Expected Module Outputs> (1) Participants will be able to explain maintenance technologies of pipelines and service installations used in Osaka City. (2) Participants will be able to explain maintenance technologies of intake, treatment, distribution facilities. (3) Instruction plan about techniques of water supply which is applicable to participant's organization will be drafted. (4) Engineers in participant's organization will receive the instruction from the participant by 5 months after the training.</p>	<p><Target Organization> Organization in charge of urban water supply system and in relation with Japanese bilateral cooperation program <Target Group> -Engineers working in organizations in charge of urban water supply system, and responsible for the training of other engineers -more than 5 years experience in the above-mentioned field</p>		
CONTENTS	PROGRAM PERIOD	May / 24 / 2010 ~ Jul / 24 / 2010	
<p><Activity in Preliminary Phase in home country> (1) Discuss the issues and clear assignments for the participants among participating organizations. (2) Submit Inception Report and Questionnaire <Activity in Core Phase in Japan> Lectures (1) Maintenance of pipelines and water supply (2) Management of intake, treatment and distribution facilities Practice (1) Management of pipelines and water supply, technical trainers' training (2) Management of intake, treatment and distribution, trainers' training (3) Draft the instruction plan Observation (1) Factory of water supply equipments (2) Water origin, Facilities of water intake, drainage, purification Discussion -Applicable techniques in participating organizations <Activity in Finalization Phase in home country> Instruction to engineers in participating organizations by 5 month after the training</p>	IMPLEMENTING PARTNER	Osaka City Waterworks Bureau	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	Osaka City Waterworks Bureau http://www.city.osaka.lg.jp/content/s/wdu030/english/	

Water Supply Administration for Better Management of Water Supply Services 水道管理行政		PITD Solution 1080915 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
		24 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective]To understand water supply administration, management and operation and maintenance in Japan, in particular, water quality control, measures against non-revenue water and water supply standards, to clarify the future subjects through sharing information and to draft improvement plan on the feasible basis.</p> <p>[Expected Results] 1. Sharing information on current situations and key problems in the participating countries 2. To be able to understand water supply administration, management and operation and maintenance in Japan 3. To be able to understand water quality management, in particular, Water Safety Plans 4. To be able to understand the countermeasures for reduction of non-revenue water (leakage, illegal connections) 5. To be able to understand the water supply standards including water supply management guidelines and performance indicators</p>	<p>[Target Organization] The division / department in charge of administration on management of water services in central / local government</p> <p>[Target Group]</p> <p>(1)To be executive officers or senior administrative officers in charge of water supply administration, (2)To be expected to continue their careers in the water supply field, (3)To have a sufficient command of both discussion and presentation in English, (4)To be in good health, both physically and mentally to participate in all of the program in Japan, (5)Not to be serving in any form of military services</p>		
CONTENTS	PROGRAM PERIOD	Jul / 4 / 2010 ~ Jul / 17 / 2010	
<p>[Preliminary Phase]Formulation of the Country Report</p> <p>[Core Phase]</p> <p>1. Country report presentation, Improvement plan formulation</p> <p>2. Water supply administration in Japan</p> <p>3. Water Quality control, Water safety plan (WHO/WPRO),Public Health and water supply</p> <p>4. Measures for non-revenue water</p> <p>5. Appropriate management of water supply management</p> <p>[Finalization Phase]</p> <p>Introduction of the idea of the improvement plan in their organization and Submission of the report on the result / progress of the Improvement Plan within six months after the end of the Core Phase</p>	IMPLEMENTING PARTNER	JAPAN INTERNATIONAL CORPORATION OF WELFARE SERVICES	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE	This course will be held three times in the Fiscal Year 2010.	

Engineering on Water Supply Systems 上水道施設技術		PITD Solution 1080944 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
		12 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Objective]</p> <p>To draw basic plan drawings for a purification facility and pipeline network, and to formulate an action plan to solve problems that respective organizations have encountered</p> <p>[Expected Result]</p> <p>(1) To sort out the necessary technology for improvement of their water supply systems</p> <p>(2)To sort out the necessary functions and roles of related entities for improvement of their water supply management</p> <p>(3)To master the skill of basic planning and design for pipeline network and water purification systems</p> <p>(4)Through information and skill from this training, to formulate an "action plan draft that solves problems their organizations have encountered, and to share the plan in respective organizations</p>	<p>[Target Organization] Departments responsible for water supply planning or designing in a water supply utility, national or local government</p> <p>[Target Group] (1) To be presently in a management position or a senior engineer who is currently or expected to be engaged in the formulation of waterworks plan (2) To be engineers with more than 5 years of experience in water supply and to be university graduates from the faculty of engineering such as civil, sanitary, environmental, or have equivalent academic background (3) To be between 30 and 45 years of age etc.</p>		
CONTENTS	PROGRAM PERIOD	May / 12 / 2010 ~ Jul / 28 / 2010	
<p>[Preliminary Phase] Formulation of Action Plan on Water Supply Systems</p> <p>[Core Phase]</p> <p>(1) Pipeline Network Analysis(hydrologic), Water Demand Forecasting, Basic Planning and Design (Pipeline Network, Water Purification Facility), Basic Planning and Design for Water Supply Systems</p> <p>(2)Water Purification Process, Operation and Maintenance of Distribution Facilities, Construction of Water Supply Facilities, Countermeasures of Water Leakage Prevention</p> <p>(3) Waterworks Management and Tariff System in Japan, Observation of Manufacturing Factory, Sanitation Research Organization, Small-scale Hydraulic Power Generation Plant</p> <p>(4) Country Report Presentation, Formulate Information list for improving water supply, Action Plan draft Presentation,</p> <p>[Finalization Phase]</p> <p>Sharing of Action Plan draft in their organization</p>	IMPLEMENTING PARTNER	Japan Water Works Association	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Water Supply in Small and Medium Scale Cities in Central Asia 中央アジア地域 中小規模都市給水		PRTD Leaders 1084027 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
Target Countries: Central Asia		10 participants / Russian	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objectives】 1. Participants from different countries will share their experiences in tackling their common problems with a limited budget, i.e. the management of complicated waterworks facilities constructed under the former Soviet Union. 2. Participants will gain a significant understanding of their problem in management and technical aspects and will prepare and present a Study Report to improve their waterworks management. 【Outputs】 1. Gain knowledge about the management of the water supply system in Japanese local cities, by studying the case of Yokohama City 2. Enhance general waterworks techniques 3. Through the above, find the keys to solve the problems on water supply systems in participants' country	【Target Organizations】 Waterworks Utilities at Small and Medium Scale Cities in the following areas; Kazakhstan: North Kazakhstan Province and Akmora Province Tajikistan: Dushanbe and Khatlon Oblast Uzbekistan: Tashkent Province, Fergana Province, and the Republic of Karakalpakstan Kyrgyz: Issik-Kul Province and Osh Province 【Target Group】 Senior engineers of the target organizations.		
CONTENTS	PROGRAM PERIOD	Nov / 15 / 2010 ~ Dec / 15 / 2010	
This year, the curriculum is mainly focused on technical matters (No. 3 of the below), and in general the curriculum covers the followings; 1. Lectures; Management of Yokohama waterworks bureau (Japan's waterworks services, water rights, water resource and water quality control in Yokohama City, and the management of sewage) 2. Lectures; Planning, operation, and administration of Yokohama waterworks bureau (tariff, operation, and human resource development) 3. Lectures; Waterworks Techniques of Yokohama waterworks bureau (control of water purification plant, water purification, water quality control, water distribution control, and water leakage control) 4. Observations; Waterworks facilities, construction place, and sewage plant in Yokohama City and others 5. Presentations; Country report at the first stage of the course and Study Report at the final stage of the course	IMPLEMENTING PARTNER	Yokohama Water Works Bureau	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE	A maximum of three per country will be able to participate in the course. The target group shall be changed as follows: 2006: Executive Manager 2007: Manager 2008-2010: Senior engineer	

Waterworks Engineering in Cold Climate Regions 寒冷地上水道技術		PRTD Trainers 1084143 Sector : Water Resources/Disaster Management Sub-Sector : Urban Water Supply	
Target Countries: Those in Cold Climate Regions		8 participants / Russian	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 Each participant shares and implements its action plan in respective organization, and reports progress to JICA 【Expected Outputs】 (1) To acquire knowledge and experiences to improve water treatment facilities and water treatment method in the participant's country (2) To acquire knowledge and experiences to improve water distribution, service installation, maintenance, and water charge systems in the participant's country (3) To acquire knowledge and experience to improve leak prevention in the participant's country. (4) To acquire knowledge and experiences to improve water quality control in the participant's country (5) To acquire particular knowledge and experiences in cold climate regions to improve water supply system in the participant's country	【organization】 Public corporation/governmental bodies in charge of water SUPPLY in cold climate regions 【Personal Qualification】 <Current Duties> senior waterworks engineers (WATER SUPPLY ONLY; NOT for sewerage work) <Experience> at least three (3) years for those university graduate; OR have at least seven (7) years of practical experience for those not <Age> Preferably, between twenty-five (25) and thirty-five (35). In principle should be under forty (40) years old		
CONTENTS	PROGRAM PERIOD	Jan / 12 / 2011 ~ Mar / 5 / 2011	
【preparatory phase】 each participant prepares country report to identify issues 【core phase】 (1) visit/structure/design/operation of water purification plant, advanced water purification (membrane, desalination) (2) distribution reservoir/pipe laying plan, pumping station, maintenance, design & quantity calculation for new installation, construction site, networks analysis, manufacturing plant, metering, charge collection, call center, metering site, environmentally conscious management (3) leak prevention/planning/detection/on-site prevention method, block metering (4) water quality control, water source & algae, design/pump/drilling of pumping station, bioassay (5) country report presentation, problem analysis, discussion, action plan consultation/presentation 【finalization phase】 share the knowledge based on action plan, then report its progress to JICA	IMPLEMENTING PARTNER	Sapporo Waterworks Bureau	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE	participants will be strongly required to actively participate the training course to solve the issues in waterworks engineering in their countries.	

Community Empowerment through Safe Water Management for Arid Regions in French Speaking African Countries 仏語圏アフリカ乾燥地域 村落飲料水管理		PRTD Solution 1084248 Sector : Water Resources/Disaster Management Sub-Sector : Rural Water Supply
Target Countries: Arid Region in French Speaking African Countries	13 participants /	French
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The official plan to establish a sustainable operation and maintenance system for safe drinking water supply in a small-scale community is improved or formulated by participant's organization based on the respective Action Plan proposed in Japan.</p> <p>【Outputs】</p> <ol style="list-style-type: none"> 1. Acquire knowledge and skills necessary for safe drinking water supply in small-scale community (quantity, quality, treatment and distribution of water) 2. Acquire knowledge and skills to organize a community participation system for sustainable safe drinking water supply 3. Propose "Action Plan" for a community participation system for sustainable safe drinking water supply in a small-scale community 	<p>【Target Organization】 Central/local government and NGOs engaged in safe drinking water supply and /or management in small-scale communities</p> <p>【Target Group】</p> <ol style="list-style-type: none"> 1. Administrative officials/NGO staffs engaged in safe drinking water supply and/or management in small-scale communities 2. Have more than three (3) years of practical and/or research experiences in field of planning and implementation for safe drinking water supply, sanitation and/or community development 3. Be fluent in French (spoken and written) 	
CONTENTS	PROGRAM PERIOD	Oct / 17 / 2010 ~ Dec / 17 / 2010
<p>【Preliminary Phase】Prepare and submit a Country Report and Gender Report</p> <p>【Phase in Japan】</p> <ol style="list-style-type: none"> 1. Safe drinking water supply in small-scale community: Health services and drinking water supply in small-scale communities, Appropriate technology for drinking water supply, Groundwater utility, Sanitation, Biomass circulation & environmental management, Environmental contamination, Drinking water utilization patterns 2. Knowledge and skills to organize a community participation system: Community development, Gender mainstreaming, Micro-credit, Communication for community participation 3. Action Plan: Project Cycle Management (PCM), Country Report presentation, Preparation and presentation of "Action Plan" <p>【Finalization Phase】Submission of the Final Report describing the progress/result of sharing Action Plan within 3 months after completion of the program in Japan</p>	IMPLEMENTING PARTNER	Fuji Women's University
	JICA CENTER	JICA Sapporo
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Local Emergency Operation Plan with Flood Hazard Map 洪水ハザードマップを活用した地域防災計画		PRTD Solution 1084064 Sector : Water Resources/Disaster Management Sub-Sector : Wind and Flood Disaster (Flood Control)
Target Countries: Country with frequent flood disasters	18 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】To be developed the direction and schedule to make local disaster management plan combined with flood hazard map and flood forecasting/warning system.</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> 1. To identify the current problems and issues on flood disaster countermeasure. 2. To develop a training plan to set the direction for a local disaster management plan and a mid-term operation schedule. 3. To identify the current problems and issues for obtaining data to conduct hydrological and flood analysis. 4. To develop a flood hazard map and sample anticipated inundation area map for solving the current problem and issues in each country. 5. To identify the relationship among flood hazard mapping, forecasting/warning systems and an evacuation plan in a local disaster management plan. 6. To develop an outline of the direction for a local disaster management plan and a mid-term operation schedule for a target area. 	<p>【Target Organizations】 This program is designed for government officials to make the direction and schedule for planning local disaster management plan combined with flood hazard map and flood forecasting/warning system in each country.</p> <p>【Target Group】</p> <ol style="list-style-type: none"> 1. Target Person: Government officials in the field of flood disaster management plan. 2. Experience: in the flood disaster management and/or relevant field. 	
CONTENTS	PROGRAM PERIOD	Oct / 31 / 2010 ~ Dec / 4 / 2010
<p>【Preliminary Phase】To make an Inception Report on present situation in the field of local emergency operation plan in each country.</p> <p>【Core Phase in Japan】 To understand the overall view of local emergency operation plan through lectures, practical exercises and site visits.</p> <ol style="list-style-type: none"> (1) General knowledge of flood disaster countermeasures (2) Awareness-raising of local residents' groups, Interviews with municipalities and local residents on disaster awareness, etc (3) Fundamentals of flood hazard mapping (Inundation analysis, GIS, etc.), "Town Watching" exercises, Production of a sample anticipated inundation map (4) General knowledge of flood disaster countermeasures (5) Project Cycle Management exercise training <p>Making an "Action Plan" for making a local disaster management plan</p> <p>【Finalization Phase】To share the Interim Report in the participants' organization, and develop/submit the Final report to JICA.</p>	IMPLEMENTING PARTNER	Public Works Research Institute (PWRI)
	JICA CENTER	JICA Tsukuba(Training&Partnership)
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	This course is planned to build your capacity up to prepare local emergency operation plan, joining in three-years' spirally stepped up sequences. So Continuous participants in the same department or in its collaborated organizations in your country are expected.

Disaster Risk Management Technology on Volcanic Eruption, Debris Flow and Landslide 火山学-総合土砂災害対策		PITD Leaders 1080876 Sector : Water Resources/Disaster Management Sub-Sector : Soil and Water Disaster
		13 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
Participants of this course are expected to improve their technology on volcanic observation or comprehensive sediment management and be able to enhance their capacity on making countermeasures to the disaster prevention / mitigation of their countries. 【Common Program】to understand and be able to explain: (1) the basic common knowledge of volcanology and erosion & sediment control engineering (2) the administration of disaster management in consideration of inhabitants' participation. 【Volcanology Course】to understand and be able to explain: (1) basic knowledge of volcanology (2) and to be able to carry out volcano observation data analysis and interpretation【Sabo Course】to understand and be able to explain: (1) basic knowledge of erosion and sediment control engineering (2) basic mechanism of sediment-related disasters such as debris flow (3) comprehensive sediment-related disaster prevention measures, structural and non-structural measures (4) the environmentally sound comprehensive sediment management	Ministry of Public Works, Ministry of Water Resources, Institute of Volcanology, Seismology, Geology or Geophysics.	
CONTENTS	PROGRAM PERIOD	under planning
This course consists of 3 components, i.e. common program, thematic program (volcanology or sabo) and individual program. The key component of this course is the individual program. Each participant will conduct 3/4 months individual training / research at university, volcano observatory, institution or foundation based on interests of the participating personnel and their organization. The theme of individual program will be set by the needs clarification form. As a result of individual training/research, each participant will be required to make a final report and present to the curriculum committee members. 【Common Program】(1)Basic common knowledge of volcanology and sabo 【Volcanology Course】(1) Basic knowledge volcanology (2) Methodology of observation 【Sabo Course】(1) Basic knowledge of sabo engineering (2) Structural measures (3) Non-structural measures 【Individual Program】(1) Individual training / research and making a final report	IMPLEMENTING PARTNER	Sabo Technical Center
	JICA CENTER	JICA Tokyo(Economy&Env.)
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	Throughout the whole training period, "Review and Discussion" session will be arranged on the turning point of the training. Each participant makes the report on the situation / status after returning to the country,

Development and utilization of mitigative technologies for slope-induced disasters in developing countries (Master's or Doctor's Degree: Engineering) 開発途上国のための斜面災害軽減技術の構築と普及(長期)		LONG-TERM Leaders 1081113 Sector : Water Resources/Disaster Management Sub-Sector : Soil and Water Disaster
		3 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
【Objectives】 Trainees complete course-work requirements, with an emphasis on geotechnical engineering, and carry out research which proposes technology and social systems that facilitate such self defense as mitigation of slope-failure disasters. Accordingly, the trainees become able to push forward the said disaster mitigation framework after coming back to home countries. 【Expected Result】 (1) Course work on subjects such as geotechnical engineering (2) Case study on real slope failure (3) Research work on slope failure by model tests or material strength tests (4) Study on practical self defense against natural disaster, conducted in trainee's home country	【Target Organizations】 University or public research institute which develop young researchers and/or engineers and also are involved in disaster administration in the country 【Target Group】 Age: under 30 years old. Application for Master's (two years) or Doctor's (Three years) can be acceptable.	
CONTENTS	PROGRAM PERIOD	Mar / 15 / 2011 ~ Mar / 31 / 2013
(1) Foundation Engineering, Principles of Soil Mechanics, Geotechnical Engineering, Geotechnical Earthquake Engineering etc. (2) Case study on real slope failure with special attention on topography and soil conditions. Laboratory tests, if necessary, on soil samples collected from sites. Case study on real slope failure, assisted by specialists, gives the trainee a good opportunity to learn the reality of slope failure and to develop a professional capabilities. (3) Model tests and/or material tests are carried out in order to propose the use of inexpensive field monitoring equipments as well as logics of warning of urgent slope failure. The output from this work constitutes the main body of a master (doctoral) thesis. (4) The self defense against natural disaster is the final goal of the program. The self defense is supported by local people in such aspects as installation, maintenance, and operation of field monitoring equipments as well as execution of emergency warning and evacuation. This study also becomes a part of thesis.	IMPLEMENTING PARTNER	Department of Civil Engineering, The University of Tokyo
	JICA CENTER	JICA Tokyo(Economy&Env.)
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	Website http://www-e.civil.t.u-tokyo.ac.jp/

Seismology, Earthquake Engineering and Disaster Management Policy 地震・耐震・防災政策		PITD Leaders 1080875 Sector : Water Resources/Disaster Management Sub-Sector : Earthquake Disaster	
		20 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 To enhance the participant's capacity to contribute to the development and dissemination of earthquake disaster mitigation techniques under consideration of actual conditions, regulations in their countries and region.</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> To be able to explain basic concept and theory on Earthquake Mechanism and Earthquake Resistant Design inevitable to establish the Seismic Disaster Mitigation. To be able to explain basic concept and theory on Seismic Hazard Evaluation, Seismic disaster Mitigation Policy and Earthquake Countermeasures inevitable to establishing Seismic Disaster Mitigation Scheme. To improve participant's capabilities to apply techniques and knowledge acquired through their studies on individual topics and to make Master Thesis / Action plans in order to solve problems in their respective countries. 	<p>【Target Organizations】 This program is designed for the governmental organization concerning to seismology, earthquake engineering and disaster mitigation.</p> <p>【Target Group】</p> <ol style="list-style-type: none"> Target person: Administrative officers and/or engineers and/or researchers in charge of seismology, earthquake engineering and disaster mitigation. Experience in the relevant field: more than 3 years' experience. Academic ability: be university graduates in seismology, earthquake engineering or seismic disaster mitigation, or be university graduates in science and technology. 		
CONTENTS	PROGRAM PERIOD	Sep / 28 / 2010 ~ Sep / 17 / 2011	
<p>【Preliminary Phase】 To make an Inception Report on current situation related governmental policy on seismology, earthquake engineering and disaster mitigation in their countries.</p> <p>【Core Phase in Japan】 To acquire the necessary skill and technique related governmental policy on seismology, earthquake engineering and disaster mitigation through lectures, discussions, research, practical exercises and site visits, etc.</p> <p>(1)Introduction to Seismology, Earthquake Engineering Earthquake mechanisms, Structural analysis, Basic concept of Seismic design</p> <p>(2) Seismic design, Seismic evaluation & retrofitting, etc</p> <p>(3)Technologies on seismic hazard assessment, Damage and risk assessment, etc.</p> <p>(4)Disaster Management Policy: Policy making on earthquake disasters, Disaster Risk Management, etc.</p> <p>(5)Others: PCM, On-site-visit, Practice of earthquake disaster prevention</p>	IMPLEMENTING PARTNER	Building Research Institute (BRI), National Graduate Institute for Policy Studies (GRIPS)	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	Participants, who have successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Mitigation', by GRIPS and BRI.	

Global Seismological Observation グローバル地震観測		PITD Leaders 1080887 Sector : Water Sub-Sector : Earthquake	
		8 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 To be acquired knowledge and advanced techniques of global seismological observation for playing important roles in the monitoring system of nuclear tests under the CTBT.</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> To acquire knowledge of the CTBT regime and the role of seismology in the International Monitoring System (IMS). To understand global seismological observation technologies for monitoring nuclear tests and earthquakes. To acquire data analytical techniques to discriminate nuclear tests from natural earthquakes. To Make an Action Plan (Project Proposal) which they should do in their country after a homecoming. 	<p>【Target Organization】 This program is designed for a governmental organization which is expected to play important roles in a global monitoring network on nuclear tests.</p> <p>【Target Group】</p> <ol style="list-style-type: none"> Target Person: Administrative officers who are expected to play important roles in a global monitoring network on nuclear tests. Experience in the relevant field: more than 3 years' experience Others: be well versed in basic mathematics such as differentiation and integration. 		
CONTENTS	PROGRAM PERIOD	Jan / 6 / 2010 ~ Mar / 6 / 2010	
<p>【Preliminary Phase】To make an Inception Report on the current situation of the global seismological observation in their country.</p> <p>【Core Phase in Japan】 To understand the overall view of the global seismological observation through lectures, practical exercises and site visits.</p> <p>(1)Outline of CTBT & IMS</p> <ul style="list-style-type: none"> Introduction of CTBT Regime concerning seismology, etc. <p>(2)Seismological Observation, National Data Center</p> <ul style="list-style-type: none"> Seismometer, Seismic Network, Design of Seismic Network, National Data Center <p>(3)Data Processing, Data Analysis, Nuclear test identifying method</p> <ul style="list-style-type: none"> Retrieval of Digital Seismic Data and Disposal of Format, Introduction to UNIX, Analysis of Teleseismic waves, Seismic Array Data Analysis, Discrimination by mb-Ms, Seismicity and Tectonics, etc. <p>(4)Formulation and Discussion on Action Plan.</p> <ul style="list-style-type: none"> Making an Action Plan, and Presentation of Action Plan 	IMPLEMENTING PARTNER	Building Research Institute (BRI)	
	JICA CENTER	JICA Tsukuba(Training&Partnership)	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	Building Research Institute (BRI) Web Site: http://www.kenken.go.jp/english/index.html	

Operating Management of Earthquake-Tsunami-Volcano Eruption Observation System 地震津波火山観測システムの運用・管理		PITD Leaders 1080035 Sector : Water Resources/Disaster Management Sub-Sector : Earthquake Disaster	
Target Countries: Countries located in the vicinity of plate subduction belt or plate collision area		6 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>[Course Objective] This program will enhance the potential of experts in target countries by improving earthquake observation technology and the understanding of earthquake generation mechanisms, thus contributing to the implementation of the observation network on earthquake and others.</p> <p>[Expected Module Outputs]</p> <ol style="list-style-type: none"> 1) To understand the fundamental theories of Earthquake, Tsunami and Volcano eruption and principles of seismometer, observation system 2) To learn the field practices, the Tsunami early warning system and observation methods used in the case of emergency 3) To understand the international cooperation observation and joint observation in plate subduction zones 4) To improve participants' capacities to apply knowledge and techniques learnt in lectures and practices through their studies on individual topics, and to make Action Plans in order to solve problems in their respective countries 	<p>[Target Organizations] Meteorological offices, geographic observatories, seismic research institutes and universities, etc. in charge of earthquake, tsunami and volcano eruption observation</p> <p>[Target Group]</p> <ol style="list-style-type: none"> 1) middle class managers or researcher 2) possess a good knowledge on observation technology and analysis. Field work in regular basis is preferred. 3) be at university graduate level in the field with enough enthusiasm, experience and academic skills to make Action Plan based on their independent research by themselves. In order to understand the contents of this training program, geophysical basics are necessary. 4) be proficient in speaking and writing English 5) be computerate enough to make reports and PPT. 		
CONTENTS	PROGRAM PERIOD	Jul / 5 / 2010 ~ Mar / 31 / 2011	
<p>The training program consists of lectures, practical exercises, and observation trips on the following:</p> <ol style="list-style-type: none"> 1) An earthquake, tsunami and volcano eruption observation system 2) Principles of earthquake, tsunami and volcano eruption 3) Analysis of earthquake, tsunami and volcano eruption records 4) Crustal movement observation and its analysis 5) Real-time observation and its operation 6) Plate tectonics 7) Earthquakes and tsunamis in the plate subduction zone 8) Volcanic eruptions in the plate subduction zone 9) Earthquakes, tsunamis and volcanic eruptions as global disasters 10) Great disasters due to earthquakes, tsunamis and volcanic eruptions and their effects on people's lives 11) Others 	IMPLEMENTING PARTNER	Research Center for Siesmology, Volocanology and Disaster Mitigation, Nagoya University	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2006~2010	
	REMARKS and WEBSITE	<p>This course is mainly based on individual research to find solutions for the problems in the respective countries.</p> <p>http://www.seis.nagoya-u.ac.jp/index_e/</p>	

DRR (Disaster Risk Reduction) Strategy for Urban Earthquake 都市地震災害軽減のための総合戦略		PITD Solution 1080892 Sector : Water Resources/Disaster Management Sub-Sector : Earthquake Disaster
		16 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 DRR (Disaster Risk Reduction) strategy for urban earthquake, which is based on a pro-active approach of DRR utilizing various tools and knowledge in risk assessment, risk management, and risk communication, is to be studied and built at each organization to implement urban earthquake DRR.</p> <p>【Expected Results】</p> <ol style="list-style-type: none"> (1) Risk Assessment and its Tools and Knowledge (2) Risk Management and its Tools and Knowledge (3) Risk Communication and its Tools and Knowledge (4) International Activities for Urban DRR and Education for Leaders (5) DRR strategy for urban earthquake is to be studied and built at each organizations to implement urban earthquake DRR <Finalization Phase> 	<p>【Target Organizations】 Organizations which conduct urban earthquake disaster risk reduction (DRR) (government, research institution, medical institution etc.)</p> <p>【Target Group】</p> <ol style="list-style-type: none"> 1) Current Duties: be a public officer, technical specialist, researcher, engineer or medical staff presently engaged in practical service of DRR of urban city. 2) Experience in the relevant field: have more than 2 years' experience in the field of DRR. 	
CONTENTS	PROGRAM PERIOD	May / 10 / 2010 ~ Jul / 1 / 2010
<p>【Preliminary Phase】 Preparation for country report</p> <p>【Core Phase】</p> <ol style="list-style-type: none"> (1) Earthquake Mechanism, Seismic Ground Motion & Hazard Map, Building Codes, Lifeline Damage Assessment. (2) Recovery of Kobe City & Community, Disasters Medical Response & Public Health, Environmental Impacts of Disasters, Economic Impacts of Earthquake (3) IT for Emergency Management, Disaster Information Sharing, Education for DRR (4) Int. Collaborations for DRR, Inter-national Organization on DRR and Educational System <p>【Finalization Phase】 Formulation and submission of the action plan and its progress report within 3 month.</p>	IMPLEMENTING PARTNER	Research Center for Urban Safety and Security, Kobe University
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	<p>The participants will attain work credit to be counted toward completing an internationally-accredited professional certification program as "urban DRR specialists" being formulated by several organizations including WBI, UNDP, UNISDR, and others. http://www.audrrkobe.org/</p>

Safer School against Disasters (Dissemination of Anti-Seismic Building for Communities) in South West Asian Countries 南西アジア地域 災害に強い学校(コミュニティへの耐震建築の普及に向けて)		PRTD Trainers 1084151 Sector : Water Resources/Disaster Management Sub-Sector : Earthquake Disaster
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 To build capacity of government officials and engineers to develop action plan and to implement school earthquake safety for their respective countries</p> <p>【Outputs】 (1) To understand the importance of school safety and role of schools in disaster risk reduction (2) To understand the technologies and provisions for design, construction and maintenance of school buildings to ensure their safety (3) To understand the vulnerability assessment of existing school buildings (4) To understand the concept and technologies for retrofitting (5) To understand country strategic plan for school safety (6) To prepare an action plan to promote school safety in respective countries</p>	<p>【Target Organizations】 Ministry of Education or regional educational committee</p> <p>【Target Group】 Current Duties: Engineering or administrative official engaged in examination or design of school building, and engaged in disaster mitigation in school Experience in the relevant field: have experience in architecture and/or system on construction – more than 7 years experience is preferable</p>	
CONTENTS	PROGRAM PERIOD	Oct / 24 / 2010 ~ Nov / 27 / 2010
<p>【Preliminary Phase】 Preparation of County Report</p> <p>【Core Phase】 1-1 Disaster risk reduction and school 1-2 School and communities in DRR 1-3 Country report on school safety 2-1 Construction of safe schools (seismic codes, philosophy, design) 3-1 Vulnerability assessment methodologies 3-2 Prioritization for intervention 4-1 Retrofitting technology for different types of school structure (RCC, wooden) 5-1 Case studies (experience of Japan) 5-2 National policy and country strategic planning 6-1 Action plan and Group work</p> <p>【Finalization Phase】 Implementaion of Action Plan</p>	IMPLEMENTING PARTNER	United Nations Centre for Regional Development (UNCRD), Disaster Management Planning Hyogo Office
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	UNCRD has conducted projects in seismic-prone countries on safer school against disasters since 2001. The experience of the UNCRD projects will be shared and the experience of Hyogo prefecture and Kobe city will also be shared with participants.

Tsunami Disaster Mitigation 津波防災		PRTD Solution 1084165 Sector : Water Resources/Disaster Management Sub-Sector : Earthquake Disaster
Target Countries: Tsunami disaster prone countries in Asia and Oceania Region		7 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 To develop and propose a draft for Tsunami Early Warning system and a draft for Tsunami Hazard Assessment in their countries.</p> <p>【Expected Results】 1. To sort out the problems concerning to tsunami disaster mitigation for establishment of Tsunami Early Warning System and Tsunami Hazard Maps. 2. To acquire basic concept and theory of generation, dispersion and regurgitation of tsunami caused by earthquake as a basic knowledge inevitable to tsunami disaster mitigation. 3. To acquire basic concept and theory of Tsunami Early Warning System, Tsunami Hazard Evaluation(maps), Tsunami Disaster Mitigation Policy, Tsunami Disaster Mitigation Countermeasures. 4. To make the improvement plan of both Tsunami Early Warning System and Tsunami Hazard Evaluation/maps.</p>	<p>【Target Organizations】 This program is designed for the governmental organization concerning to earthquake and tsunami disaster mitigation.</p> <p>【Target Group】 1. Target person: Administrative officers and/or engineers and/or researchers in charge of tsunami disaster mitigation. 2. Experience in the relevant field: more than 3 years' experience. 3. To be university graduates in Seismology, Tsunami or Their Disaster Mitigation, or be university graduates in Science and Technology other than the above mentioned subjects.</p>	
CONTENTS	PROGRAM PERIOD	Sep / 28 / 2010 ~ Sep / 17 / 2011
<p>【Preliminary Phase】 To make an Inception Report on current situation related governmental policy on tsunami disaster mitigation in their countries.</p> <p>【Core Phase in Japan】To acquire the necessary skill and technique related to tsunami disaster mitigation through lectures, discussions, exercises and site visits, etc. (1)Information Technology Related with Earthquake and Disasters: •Earthquake Phenomenology, Earthquake Circumstance, etc. (2)Tsunami Simulation, Tsunami Generation and Propagation, etc. (3)Tsunami Hazard Assessment, Tsunami Countermeasures: •Tsunami Hazard Map, Tsunami Early Warning System and Dissemination, etc. (4)Disaster Management Policy: Seismic Disaster Mitigation Policy, etc. (5)Others: PCM, On-site-visit, Practice of earthquake disaster prevention</p> <p>【Finalization Phase】 To share the technical report (Action Plan) in the participants' organization, and develop/submit the Final report to JICA.</p>	IMPLEMENTING PARTNER	Building Research Institute (BRI), National Graduate Institute for Policy Studies (GRIPS)
	JICA CENTER	JICA Tsukuba(Training&Partnership)
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	Participants, who have successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Mitigation', by GRIPS and BRI.

Reinforcement of Meteorological Services 気象業務能力向上		PITD Trainers 1080780 Sector : Water Resources/Disaster Management Sub-Sector : Meteorology	
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】This course is aimed at promoting activities to reinforce the meteorological services of each country by applying meteorological data/products such as numerical weather prediction, satellite images and climate information.</p> <p>【Outputs】</p> <p>(1) To be able to explain the fundamental techniques such as numerical weather prediction (NWP), and satellite meteorology.</p> <p>(2) To be able to produce meteorological information that meets users' requirements based on fundamental techniques such as NWP and satellite meteorology (Weather Forecasting Course)</p> <p>(3) To be able to brief on climate conditions and produce climate information using climatological and global environmental data and products (Climatology Course)</p> <p>(4) To draw up a draft master plan to improve the meteorological services of their own organizations for use in their home countries.</p>	<p>【Target Organizations】 National Meteorological Services</p> <p>【Target Group】 "Meteorologist" according to the WMO personnel categories Be familiar with and have experiences of using basic PC software Not be serving in the military Have a good command of spoken and written English,</p>		
CONTENTS	PROGRAM PERIOD	under planning	
<p>(1) Lectures on the basics of numerical weather prediction and its application. Lectures outlining satellite meteorology and the application of satellite data</p> <p>(2) Exercises in satellite data application Exercises in operational forecasting Lectures on the knowledge and skills needed to produce meteorological information that meets user requirements</p> <p>(3) Lectures on climatological and global environmental information. Exercises in the application of climatological and global environmental information</p> <p>(4) Creation of final reports (including master plans) Presentation of final reports and discussion</p> <p>[After the training course] Implementation of activities to transfer the knowledge and expertise to colleagues in order to improve the meteorological services of participants' organizations (follow-up survey with questionnaire)</p>	IMPLEMENTING PARTNER	Japan Meteorological Agency	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Fire Prevention Techniques 火災予防技術		PITD Trainers 1080933 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
		7 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】 The knowledge and the techniques of fire prevention will be shared within participant's organization and other relevant institutions.</p> <p>【Outputs】</p> <p>1. To identify the problems and challenges on the fire prevention activities and policies in the respective sections or organizations belong to, based on the newly acquired knowledge and experiences through training.</p> <p>2. To make an Action Plan that suggests the formation of more practical fire prevention system, and improvement of the fire prevention measures, duties and services in the participants' organizations.</p> <p>3. To implement the Action Plan in their home countries after they return to the respective countries.</p>	<p>【Target Organization】 The fire department/brigade or the fire and disaster management sector.</p> <p>【Target Group】 (1) Be an administrative officer or a candidate of a fire service implementation agency, who is or will be engaged in planning/ drafting Fire Prevention System and Fire Service Systems. (2) Be proficient in spoken and written English. (3) Be under forty (40) years of age in principle.</p>		
CONTENTS	PROGRAM PERIOD	Aug / 11 / 2010 ~ Sep / 25 / 2010	
<p>【Core Phase in Japan】</p> <p>(1) Lectures and practical trainings about the outline of fire service system (central/local), legislation and practical measures</p> <p>(2) Visits/study tours to the relevant facilities, local fire stations</p> <p>(3) Practical trainings/ presentations and discussion about fire prevention techniques</p> <p>(4) Formulating and presenting Action Plan which features feasible plan to their organizations and their countries.</p> <p>【Finalization Phase in a participant's home country】</p> <p>(1) Application and implementation of Action Plan in respective home countries</p> <p>(2) Submission of the Final Report explaining what the participants have done to make their Action Plan come true as well as what goals/constraints they still have (in three months after returning to their home countries).</p>	IMPLEMENTING PARTNER	Ministry of Internal Affairs and Communications, and Tokyo Fire Department	
	JICA CENTER	JICA Tokyo(Public Policy)	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE	<p>【URL】</p> <ul style="list-style-type: none"> •Fire and Disaster Management Agency of Japan, Ministry of Internal Affairs and Communications http://www.fdma.go.jp/en/ •Tokyo Fire Department http://www.tfd.metro.tokyo.jp/eng/index.html 	

Rescue Techniques 救急救助技術		PITD Trainers 1080342 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
		10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Participants are required to obtain basic necessary knowledge as the leaders of firefighting and first rescue service, as well as to acquire the knowledge/technique to rescue victims from life-threatening circumstance.</p> <p>To learn the fundamental knowledge and skills to rescue the disaster victims facing dangerous situation caused by accidents such as earthquake, fire and unable to evacuate by themselves.</p> <p>To learn basic knowledge and techniques of emergency rescue measures including artificial respiration, cardiopulmonary resuscitation, stop bleeding method, immobilization techniques etc.</p> <p>To acquire necessary knowledge for a leader of first rescue activity.</p> <p>To gain necessary knowledge and technique so that the participants could formulate the draft plan of human resource development in participants' workplaces by disseminating the knowledge and technique they learned.</p>	<p>-Be a rescue leader and will be able to widely spread knowledge and skills obtained in the course in their own countries,</p> <p>-Experience in the relevant field: Have at least three-year experiences in rescue operations, and are currently engaged in the operations,</p> <p>Health: must be in good health, both physically and mentally, to participate in the Program in Japan,</p> <p>-Tying and hitching ropes and lines</p> <p>-Able to swim more than 50 meters and tread water for 5 minutes,</p> <p>-Have mastered the three-point procedure for building entry via ladder.</p>		
CONTENTS	PROGRAM PERIOD	Jul / 19 / 2010 ~ Oct / 23 / 2010	
<ul style="list-style-type: none"> • Training (basic actions, using rescue instruments (ladder, ladder truck), water rescue, climbing techniques, descending techniques, mountain rescue, collapsed building, entry and rescue etc.) • Lectures and practical trainings • Joint training with Japan Disaster Relief Team (JDR) • Entry and rescue training etc. • Lectures on rescue command techniques • Visits to local fire service departments • Lectures and observations on countermeasures to special disasters caused by hazardous materials • Observation of relevant manufacturers and installation. 	IMPLEMENTING PARTNER	Osaka Municipal Fire Department (OMFD)	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Fire Fighting Techniques 消火技術		PITD Trainers 1080814 Sector : Water Resources / Disaster Management Sub-Sector : Comprehensive Disaster Management	
		6 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】</p> <p>1) To be able to practice fire and rescue drill by utilizing the equipments appropriately in the real situation as a training.</p> <p>2) To be able to manage the group by using the above mentioned technique and knowledge.</p> <p>【Outputs】</p> <p>(1) To acquire the knowledge and the techniques on fire fighting, rescue works, and safe control for various fire sites in Japan such as building, dangerous substance, forests, vehicles, ships, and aircrafts.</p> <p>(2) To acquire the knowledge and the techniques on operation of various fire fighting equipment in Japan.</p> <p>(3) To understand and practice the knowledge and techniques of emergency rescue.</p> <p>(4) To make the activity plan for transferring the acquired knowledge and techniques.</p> <p>(5) To consider the activity plan after returning to home countries</p>	<p>【Target Organizations】</p> <p>Fire Service Organization (Central Government, Local Government or Private Sector)</p> <p>【Target Group】</p> <p>1) Current Duties: be presently engaged in fire fighting services and be planned to be fire fighting commanders or training instructors</p> <p>2) Experience in the relevant field: have more than 5 years' experience in fire fighting practical training</p> <p>3) Language: have a sufficient command of spoken and written English</p>		
CONTENTS	PROGRAM PERIOD	Jul / 6 / 2010 ~ Oct / 23 / 2010	
<p>(1) Fire prevention drill and field study Safety control (lecture and practice) Command theory (lecture)</p> <p>(2) Fire fighting equipment (lecture and practice)</p> <p>(3) Rescue and emergency measure in the various fire sites (lecture and practice)</p> <p>(4) Lecture on how to make an action plan</p> <p>(5) Report to JICA the progress of knowledge/skills sharing among the respective organization.</p>	IMPLEMENTING PARTNER	Fire and Disaster Management Agency, The Ministry of Internal Affairs and Communications	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Comprehensive Disaster Risk Management 総合防災行政		PITD Solution 1080999 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
		20 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】</p> <p>Participants are requested to contribute to the institutional capacity development on disaster management through elaborating and implementing action plan in terms of disaster prevention and mitigation</p> <p>【Outputs】</p> <ol style="list-style-type: none"> 1. To understand roles of national and local governments in disaster management in Japan and examine how to adopt acquired knowledge in each country 2. To understand the role of private sectors such as NGOs and mass-media in disaster management and examine how to adopt acquired knowledge in each country. 3. To understand Japanese approaches to different disasters and examine how to adopt acquired knowledge in each country. 4. To formulate action plans for the challenging the problems in each country. 	<p>【Target Organization】</p> <p>Ministry in charge of disaster risk management and local government</p> <p>【Target Group】</p> <p>< Position ></p> <p>Officers in charge of disaster risk management</p> <p>< Experience ></p> <p>More than 2 years in the relevant field</p>		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Feb / 26 / 2011	
<p>【Preliminary Phase】</p> <p>Preparation of Job Report</p> <p>【Core Phase】</p> <ul style="list-style-type: none"> - Disaster risk management in Japan - Overview of Great Hanshin Awaji Earthquake and recovery - Disaster prevention education - Activities for raising awareness of disaster prevention - Community based disaster risk management - Collaboration between disaster and development/tourism in recovery phase - Role of mass media in disasters - Function of community radio - Preparation of Action Plan <p>【Finalization Phase】</p> <ul style="list-style-type: none"> - Implementation of Action Plan 	IMPLEMENTING PARTNER	Asian Disaster Reduction Center	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Community-based Disaster Risk Management コミュニティ防災		PRTD Leaders 1084220 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
		20 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】</p> <p>The concept and method of promotion of community based disaster prevention are acquired, through understanding the importance of comprehensive management for natural disaster</p> <p>【Outputs】</p> <ol style="list-style-type: none"> (1) Significance of disaster prevention (2) Needs and mechanism of community based disaster prevention and how to take community into it (3) How to operate and conduct drills in community based disaster prevention (4) How to foster leaders for disaster prevention in community (5) Establishment of a simulated organization for community based disaster prevention and formulation of an action plan 	<p>【Target organization】</p> <p>organizations which can play a leading role in promotion of community based disaster prevention and dissemination of self-help organization of residents for disaster prevention. (e.g. Disaster management planning organization/division, community development organization in central/local government)</p> <p>【Target Group】</p> <p>Position: Officials who can play a leading role in promotion of community based disaster prevention. Experience in the relevant field: more than 2 years' experience</p>		
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Feb / 19 / 2011	
<p>【Preliminary Phase】</p> <p>Preparation of Job Report</p> <p>【Core Phase】</p> <ul style="list-style-type: none"> - Overview of Disaster Risk Management in the world - Disaster Risk Management in Japan - Great Hanshin Awaji Earthquake - "Disaster-Safe Welfare Community", promoted by Kobe city - Necessary equipment for the community-based disaster risk management - Planning and implementation of community-based disaster risk management - Disaster Prevention Education in schools and communities - Preparation of Action Plan <p>【Finalization Phase】</p> <p>Implementation of Action Plan</p>	IMPLEMENTING PARTNER	Kobe City Fire Bureau, Kobe City Disaster Prevention Corporation	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Comprehensive Disaster Management for Central Asia and Caucasus 中央アジア・コーカサス地域総合防災行政		PRTD Leaders 1084047 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
		16 participants / Russian
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】Action Plan to improve the DRM capacity in Participant's organization in accordance with the 5 priority actions in Hyogo Framework of Action 2005-2015 (HFA) is prepared by the participant.</p> <p>【Output】(1) To understand the Priority Action 1 of HFA, and are able to arrange to "Make Disaster Risk Reduction a Priority"</p> <p>(2) To understand the Priority Action 2 of HFA, and are able to propose a concrete plan for "Know the Risks and Take Action"</p> <p>(3) To understand the Priority Action 3 of HFA, and are able to propose a concrete plan for "Build Understanding and Awareness"</p> <p>(4) To understand the Priority Action 4 and 5 of HFA, and are able to propose a concrete plan for "Reduce Risks" and "Be Prepared and Ready to Act"</p> <p>(5) Participants plan Action Plan in accordance with the HFA for improving DRM capacity in their organization. At the same time, regional Network of DRM organization is deepened.</p>	<p>【Target Organization】 Ministry in charge of disaster risk management or local government</p> <p>【Target Group】 <Position> General or technical officer in charge of disaster risk management in central or local government</p> <p><Experience> More than 2 years' experience in the relevant field</p>	
CONTENTS	PROGRAM PERIOD	Jun / 28 / 2010 ~ Aug / 8 / 2010
<p>【Preliminary Phase】 Preparation of Job Report</p> <p>【Core Phase】 Creating effective, multi-sectoral national platforms for DRM Integrating DRM into development policies and planning Ensuring community participation Evolution of risks in DRM in National and Regional level Early Warning system Institution for observation and forecasting of Disaster Risk Re-strengthening of DRM capacity in Region, Nation and communities Promotion of DRM Education DRM program in Communities Public awareness through mass media</p> <p>【Finalization Phase】 Implementation of Action Plan</p>	IMPLEMENTING PARTNER	Asian Disaster Reduction Center
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Training on Firefighting command techniques 消防活動指揮技術研修		PRTD Trainers 1084309 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
Target Countries: Vietnam Only		4 participants / Vietnamese
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The fire prevention and fire fighting drills that are applicable to the actual conditions in Vietnam will be shared within the Fire and Disaster Management College of Vietnam.</p> <p>【Expected Results of JFY2010】 (1)Participants as commanders of fire pumper units or rescue units will be able to implement and command special disaster operations and techniques trainings. (2)Participants will identify the current situation and challenges of the training plan of rescue techniques, and examine the improvement measures. (3)After returning to the home country, participants will make a training plan based on the techniques obtained during the core phase in Japan, then will implement the plan in the education and training curriculum at the University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam.</p> <p>*The output of JFY2011 will be announced in the General Information in 2011.</p>	<p>【Target Organization】 The University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam</p> <p>【Target Group】 -Be instructors of the University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam, who are in charge of education and trainings for the fire prevention personnel in Vietnam, or preferably be commanders of fire vehicles and/or have ever experienced as trainers in the field of fire fighting. -Be able to participate in throughout 3 year-program (from 2009 to 2011) as a whole.</p>	
CONTENTS	PROGRAM PERIOD	May / 5 / 2010 ~ Jun / 3 / 2010
<p>To Acquire higher level techniques on firefighting and rescue activities which correspond urbanization.</p> <p><Contents of JFY2010> Special disaster management (Basement Fire, Wild Fire, Ship Fire, Hazardous Materials Fire, High and medium-height Building Fire)</p> <p>*The contents of JFY2011 will be announced in the General Information in 2011.</p>	IMPLEMENTING PARTNER	Fire departments
	JICA CENTER	JICA Tokyo(Public Policy)
	COOPERATION PERIOD	2009~2011
	REMARKS and WEBSITE	JICA will extend follow-up support to participating organizations that intend to develop the result of the program further. For the purpose, JICA will hold a TV-conference every 3 or 4 months between JICA Vietnam and JICA Tokyo with the attendance of all the personnel concerned.

Dissemination and Establishment of Disaster Prevention Culture for Asian Countries アジア地域 防災文化の普及と定着		PRTD Trainers 1084005 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
		15 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】To review the lessons learned from the disasters and to utilize the experience as wisdom for daily life, and to inherit the importance of disaster prevention as an own culture of the region.</p> <p>【Outputs】(1) To be able to explain significance and characteristics of raising public awareness for DRR. (2) To be able to explain significance and characteristics of raising public awareness for DRR via disaster education in school. (3) To be able to explain significance and characteristics of raising public awareness for DRR via development of specialist in the next generation. (4) To be able to explain significance and characteristics of raising public awareness for DRR via various means for dissemination. (5) To formulate a proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods. (6) To formulate a final draft of proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods.</p>	<p>【Target Organizations】 Department or agency in central or local government in charge of raising public awareness for DRR and/or disaster education.</p> <p>【Target Group】 1) Current Duties: be an executive official/manager who can play a leading role in raising public awareness for DRR and/or disaster education. It will include executive official/manager of central/local government or manager of institution/facility which raises public awareness for DRR and/or disaster education. 2) Experience in the relevant field: have more than 3 years' experience in the relevant field.</p>	
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Feb / 19 / 2011
<p>【Preliminary Phase】 Preparation of Country Report</p> <p>【Core Phase in Japan】 1-1 Activities for raising public awareness for DRR in community 1-2 Raising public awareness for DRR by museum and other forms of institution. 2-1 Disaster education implemented by central and local government in Japan 2-2 Observation of disaster education in school 3-1 Curriculum and contents of lectures of DRR in educational organization. 3-2 Discussion with students who major in disaster risk reduction in school. 4-1 Disaster game, picture-card show etc., and activities by private sector 5-1 To formulate a proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods. 5-2 Consideration of concrete action plan for raising public awareness for DRR</p> <p>【Finalization Phase】 Implementaion of Action Plan</p>	IMPLEMENTING PARTNER	Asian Disaster Reduction Center
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	

Volunteer Management for Disaster Resilient Communities in Asian Countries 災害に強いコミュニティ作りに向けたボランティア・マネージメント		PRTD Trainers 1084097 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
Target Countries: Philippines, Thailand, VietNam, Myanmar		18 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】Capability of Organizing and Managing Volunteers in Community Level to build the "Disaster Resilient Communities" (DRC) is strengthened in the staff members of NGOs organizing and/or promoting DRC, and of Local/Central Government Office(s) in charge of promoting DRC.</p> <p>【Output】(1) Efforts and Issues for realizing the Disaster Resilient Community is shared among the Participants as well as Japanese Resources (2) Role of Government and NGO/NPO in DRM in Community Level (3) Skills and Knowledges on Community Organization and Volunteer Management in Communities (4) An action Plan to realize the Disaster resilient Communities in participants' work places are prepared (5) The Action Plan for realization of "Disaster Resilient Communities", prepared through the core-phase in Japan, is discussed, revised and Apo roved in Participants' organizations.</p>	<p>【Target Organization】 NGO/NPO which organizes and promotes community based disaster risk management or local government or ministry in charge of community based disaster risk management</p> <p>【Target Group】 <Position> Person in charge of organization and promotion of community based disaster risk management or officer in charge of promotion of community based disaster risk management in central or local government <Experience> More than 1 year's in the relevant field</p>	
CONTENTS	PROGRAM PERIOD	under planning ~ under planning
<p>【Preliminary Phase】 Preparation of Job Report</p> <p>【Core Phase】 •Sharing the efforts and issues in realizing Disaster Resilient Communities in Participating countries •Japanese NGOs/NPOs in Community Development •"Participatory Group Dynamism" Training by Participatory Development Institute •Group Exercises in DRM-Welfare Communities in Kobe •Establishment and management of Volunteer Center/Shelter •Preparation and sharing the Action Plan •Discussion of Networking of Citizens' organization in Community DRM in Asia •Sharing the prepared "Action Plan" with concerned organization(s)/communities. •Reporting the progress on revision and realization of Action Plan to JICA Hyogo</p> <p>【Finalization Phase】 •Reporting the progress on revision and realization of Action Plan to JICA Hyogo</p>	IMPLEMENTING PARTNER	KEC (Kobe Empowerment Center), CODE (Citizens towards Overseas Emergency)
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Development of Coordinators for Disaster Nursing for Middle East and Asian Countries 中東・アジア地域 災害に備えた看護コーディネーター育成		PRTD Trainers 1084152 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
Target Countries: China nad Thailand		20 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
【Objectives】 This program aims to formulate and practice an action plan of developing coordinators for disaster nursing. 【Expected Module Output】 1. To be able to explain disaster nursing including the importance of coordinators for disaster nursing 2. To be able to explain the role and method of disaster nursing as well as the role of medical organizations at the response/relief stage of disaster 3. To be able to explain the role and method of disaster nursing and care activities at the stage of mid- and long- term after disaster 4. To be able to explain the role and method of disaster nursing at the preparatory/preparedness stage of disaster 5. To understand how to formulate programs for developing human resources and how to spread disaster nursing.	【Target Organizations】 Organization which can play a leading role in promotion of disaster nursing. (e.g. Medical/Educational institution, Central/local government, Nursing association, NGO) 【Target Group】 (1) Current Duty: develops coordinators for disaster nursing (who will be in charge for disaster correspondence in medical institution or public health institution), have basic education on nursing (2) Experience: has more than 2 years' experience in the relevant field and basic education on nursing. (3) have a competent command of spoken and written English	
CONTENTS	PROGRAM PERIOD	Aug / 29 / 2010 ~ Sep / 28 / 2010
【Preliminary Phase in a participant's home country】 Preparation for Country Report 【Core Phase in Japan】 (Module 1) Essence and concept of disaster nursing and Role of nursing during a disaster / Disaster nursing network in WHO/ International network for disaster nursing in the community (Module 2) Japanese Red Cross Society / Disaster nursing in Japanese Nursing Society / Hyogo Emergency Medical Center / Nursing management (Module 3) Pediatric care in disaster / Chronic disease / Maternal and puerperal care in disaster / Disaster nursing in the community / Disaster nursing activities in the reconstruction period (Module 4) Disaster nursing in Japanese Nursing Society / Disaster and information / Town healthcare room / Disaster nursing in the community / Disaster nursing education / (Module 5) Issue Analysis Workshop / Preparation and presentation of Action Plan 【Finalization Phase in a participant's home country】 Implementation of Action Plan	IMPLEMENTING PARTNER	Research Institute of Nursing Care for People and Community, University of Hyogo
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS and WEBSITE	Research Institute of Nursing Care for People and Community, University of Hyogo: http://www.coe-cnas.jp/keaken/english/index.html

Recovery Planning from Natural Disasters 自然災害からの復興計画		PRTD Solution 1084219 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management
Target Countries: Philippines, Fiji, Turkey, Alge. India, China, PNG etc.		18 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
【Objectives】 Specific action plans for recovery from disasters in each country with an eye to "social capital" are created and shared in the organization in charge of recovery from disasters. 【Outputs】 (1) The participants will understand the outline of the Great Hanshin-Awaji Earthquake and emergency response to it. (2) The participants will understand the PDCA (Plan, Do, Check, and Act for improvement) Cycle in efforts for recovery. (3) The participants will understand the importance of the concept of "social capital" from the experience of role sharing among residents, business operators, and administrative bodies in the efforts to solve problems caused by the Great Hanshin-Awaji Earthquake. (4) The participants will understand new viewpoints (efforts of individuals and communities, infrastructure development, and crisis-control structure) to develop safe towns based on the lessons from the Great Hanshin-Awaji Earthquake. (5) Action plans for the respective countries will be created.	1) Current duties: be or will be officials who are highly motivated and in a position that enables them to become involved with the formulation of recovery plans from disasters (i.g. urban planning, housing reconstruction, economic recovery, disaster victims livelihood recovery) and to promote them in their countries, and be officials who will continue to become involved with the formulation of recovery plans from disasters and to promote in their countries after the completion of this training program. 2) Experience : have work experience of more than three (3) years in the field mentioned above. 3) Educational background: university graduate or equivalent	
CONTENTS	PROGRAM PERIOD	Jan / 10 / 2011 ~ Feb / 26 / 2011
【Preliminary Phase】 Preparation of Job Report 【Core Phase in Japan】 (1)Outline of the Great Hanshin-Awaji Earthquake/ Damages and emergency response in each field/ Visit on monument to the Great-Hanshin Awaji Earthquake (2) Recovery plan/ Promotion of recovery plan/ Actions taken to the issues at each period from the time of disaster emergency response to that of recovery or reconstruction and evaluations (3) Significance of social capital/ Case examples of "mutual help" by enterprises, NGOs, volunteers, and local communities/ Redevelopment projects (readjustment of town lots) and residents/ Mutual help in the participants' countries (4) Development of safe towns/ Creation of safe cities in each countries (5) Session to exchange views between the Kobe City officials and the participants 【Finalization Phase】 Implementation of Action Plan	IMPLEMENTING PARTNER	Kobe Institute for Urban Research, Kobe International Center for Cooperation and Communication
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2010~2012
	REMARKS and WEBSITE	

Control de Desastres 中米防災対策		PRTD Solution 1084133 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
		13 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Ministry or central governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the collaboration among administrative bodies, citizen, community, mass media and research institutes about the information management on natural disaster To understand the concrete methodology for the dissemination on raising awareness of disaster prevention and information management, considering disaster risk reduction in communities To understand the methodology for project management in each country To make action plan	【Target Organization】 Central government in charge of Disaster Risk Management or Local Government 【Target Group】 (1) Current Duties: Officials in charge of Disaster Risk Management in Central or Local Government (2) Experience in the relevant field: have experiences for more than 2 years (3) Others: The person who will be in touch with JICA BOSAI project in the future is preferable.		
CONTENTS	PROGRAM PERIOD	Oct / 30 / 2010 ~ Dec / 4 / 2010	
【Preliminary Phase】 Preparation of Country Report Exchange of opinion with ex-participants 【Core Phase】 - Overview of Great Hanshin-Awaji Earthquake and recovery - Early warning system for natural disasters in Japan - Function of mass media in disasters - Risk communication - Examples of community-based disaster management in Japan - Methodology about raising awareness of disaster prevention for residents, - Dissemination of the consciousness on disaster prevention - Preparation of Action Plan 【Finalization Phase】 Implementation of Action Plan after discussing the action plan with the relevant persons like JICA officers in overseas offices and BOSAI Project	IMPLEMENTING PARTNER	The Great Hanshin-Awaji Earthquake Memorial Disaster Reduction and Human Renovation Institution	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Capacity Development of Policy Making in Climate Change Adaptation (CCA) in Water Sector 気候変動適応策水分野における政策策定能力向上		PRTD Int.Dialogue 1084022 Sector : Water Resources/Disaster Management Sub-Sector : Comprehensive Disaster Management	
Target Countries: Indonesia, Philippines, VietNam, Myanmar, Kazakhstan		18 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objectives】 Policy makers at secretary and director general levels of disaster management and water management will strengthen their policy making capacity of CCA 【Output】 (1) To share most advanced knowledge in climate change among overseas participating countries and Japan (2) To have new idea through exchange of opinion about climate change among overseas participants and Japanese central governmental officers	【Target Organizations】 ministry in charge of water resource or disaster risk management 【Target Group】 High rank officer of the above-mentioned ministry (undersecretary, director)		
CONTENTS	PROGRAM PERIOD	under planning ~ under planning	
- Concept of policy making - Current situation on the CCA - Collaboration with local government - Raising citizen's awareness on CCA - Development of the estimation model for climate change - Exchange of opinions with the officers in charge of CCA who work in the central governments - Exchange of opinions with JICA Officers	IMPLEMENTING PARTNER	under planning	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		

Satellite Remote Sensing Data Analysis Technology for Disaster/Environmental Monitoring 災害・環境監視のための衛星リモートセンシングデータ解析技術		PITD Trainers 1080068 Sector : Water Resources/Disaster Management Sub-Sector : Other Water Resources/Disaster Management Issues 12 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Objective This program enables technicians and researchers to analyze SAR and other remote sensing data as a tool leading to solutions for disaster/environmental problem in their respective countries. Output To achieve the above Program Objective, participants are expected; 1) To be able to explain the principle and analysis method of SAR and other data, 2) To be able to carry out basic and advanced processing of SAR data, 3) To be able to apply SAR and optical sensor data to disaster/environmental monitoring and integrate the data into map information, and 4) To be able to make case study analysis and report the result by using SAR and other data.	Eligible / Target Organization: This program is designed for Governmental organizations hoping for disaster/environment monitoring by means of improving remote sensing data analysis, especially SAR technology. And it is desirable that the organizations are prepared or planning systems and working environments that facilitate propagation and utilization of learned techniques.		
CONTENTS	PROGRAM PERIOD	Aug / 3 / 2010 ~ Sep / 12 / 2010	
Preliminary Phase: (1) Self study (2) Preparation for Presentation of Inception Report Core Phase in Japan: (1) Inception Report Presentation (2) Principles and analysis method of SAR and other data (3) Basic and advanced processing of SAR and Optical Sensor data (4) Integration of disaster/environmental SAR and Optical Sensor data into geographic information (5) Output Presentation by using SAR and other data analysis Finalization Phase: 1) Presentation of his/her output 2) Development of teaching materials 3) Submission of teaching materials, comments and Action Plan	IMPLEMENTING PARTNER	Under Planning	
	JICA CENTER	JICA Tokyo(Economy&Env.)	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Emergency / Disaster Medicine 救急・大災害医療		PITD Solution 1080796 Sector : Water Resources / Disaster Management Sub-Sector : Other Water Resources/Disaster Management Issues 20 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objectives】 Participants' capacity to formulate an action plan to solve the problems/challenges which participants' organization are facing, and to improve the system and management of emergency /disaster medicine is improved. 【Outputs】 1) Participants will gain a general view of the Japanese emergency medical system and understand the cooperative system among related organizations, 2) Participants will gain a general view of Japanese disaster medical system through past experiences in Japan, 3) Draft action plan will be formulated to solve the problems/challenges which participants' organization are facing.	【Target Organizations】 Emergency medical organizations or medical administrative agencies 【Target Group】 1) senior medical doctors or administrators engaged in measures for emergency/disaster medicine and occupying a position of leadership in an emergency medical institution or a medical administrative organization,2) be familiar with the recent situation of emergency medical research activities or disaster preparedness in their own country ※Participating Countries in "Medical Management in Disaster for Andes Area" (Held in JICA Hyogo) will not be allocated in this program.		
CONTENTS	PROGRAM PERIOD	Aug / 9 / 2010 ~ Sep / 18 / 2010	
〈Preparatory phase in participants' home countries〉 Formulation of Job Report 〈Phase in Japan〉 (1) Primary/secondary/tertiary emergency medicine, Poisonous & hazardous substance information management, Emergency medical training, Emergency-response personnel training (2) National disaster-medicine systems, Local disaster-medicine systems, The experience of the great Hanshin earthquake, Japanese red cross society roles & mobilization system, Hospital disaster-readiness practice (3) Action plan making 〈Finalization Phase in participants' home countries〉 Discussion and Finalization of Action Plan, Submission of final report to JICA Action	IMPLEMENTING PARTNER	Saiseikai Senri Hospital, Senri Critical Care Medical Center	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2008~2010	
	REMARKS and WEBSITE		

Volcanic Disaster Prevention and Management for Central and South American Countries 中南米地域 火山防災能力強化		PRTD Solution 1084264 Sector : Water Resources/Disaster Management Sub-Sector : Other Water Resources/Disaster Management Issues 10 participants / Spanish	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 Respective community or society's capacity against volcanic disaster prevention / management shall be improved, though the implementation of the formulated plan 【Expected Outputs】 (1) To identify the issues of the volcanic disaster management in participants' country / area through understanding how to grasp volcanic disaster risk in Japan (2) To identify the issues of the volcanic disaster management in participants' country / area by understanding the disaster prevention plans and schemes in volcanic disaster vulnerable area in Japan. (3) To propose ideas for productive usage of volcanoes as resources for regional promotion by learning cases in Hokkaido (4) To propose appropriate and feasible "Action Plan" for volcanic disaster management in participants country/regions	【Organization】 Central / Local government, University, Research Institutes and NGOs, in charge of on the ground work for volcanic disaster management 【Personal Qualification】 <Current Duties>Senior staff in charge of volcanic disaster prevention & management on the ground. <Experience> More than five (5) years in the field of volcanic disaster prevention and management. <Educational Background> Volcanology, Natural disaster management etc. <Age>Be between 25 to 45		
CONTENTS	PROGRAM PERIOD	Jun / 15 / 2010 ~ Jul / 24 / 2010	
【Preparatory Phase】 Each participant prepares country report to identify its issues 【Core Phase】 (1) Volcanology, Eruption mechanism, Volcanic disaster(general remarks), Volcanic disaster(pyroclastic flow, pyroclastic surge, lahar, hazard map), Eruption forecast, Risk management (2) Countermeasure against volcanic disaster(through the cases of Usu, Tokachi, Unzen, and Miyakejima volcanoes), Scheme of volcanic disaster organization (disaster management office etc), Eruption and mass media, Disaster psychology, educational activities around volcanic disaster vulnerable area, Volcanic information device (3) National park and museum around volcanic area, UNESCO Geopark (4) Inception Report Presentation, Group discussion, Proposing Action Plan 【Finalization Phase】 (1) Within 3 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	IMPLEMENTING PARTNER	Crisis & Environment Management Policy Institute	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2009~2011	
	REMARKS and WEBSITE	•In the selection committee, special attention will be paid to secure diversity of home organizations in order to deepen the understanding for the importance of multi-stakeholders in disaster prevention	

Management of Medical Service in Disaster for Andean Countries アンデス地域災害医療マネージメント		PRTD Solution 1084118 Sector : Water Resources/Disaster Management Sub-Sector : Other Water Resources/Disaster Management Issues 12 participants / Spanish	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 To formulate action plan on improving the management system integrated both administration and medical services in disasters 【Outputs】 1.Policies and measures on disaster prevention of Japanese government and Hyogo prefecture 2.Coordination between administration and medical services at the time of disaster 3.Disaster medicine 4.Disaster prevention in community and region	【Target Organizations】 Organizations related to disaster medical care or emergency medicine 【Target Group】 - Officials in charge of disaster medical care in central or regional governments - Medical staff of emergency medical facilities such as doctors, nurses, paramedics, who are engaged in disaster medical care. - More than 2 years of work experience in the field of disaster medical care is required. - Be able to disseminate knowledge, experiences and techniques acquired from this training course after returning to their home countries		
CONTENTS	PROGRAM PERIOD	Oct / 25 / 2010 ~ Dec / 11 / 2010	
Disaster prevention in Japan and in Hyogo Prefecture, coordination between administration and medical services in disasters, response to disaster, disaster prevention in regions and drafting of action plans to improve management system between administration and medical services in disasters. This will include: Disaster prevention in Japan and in Hyogo Prefecture, emergency medical care in Japan, health care services in Japan, lessons learned at Great Hanshin-Awaji Earthquake, coordination between administration and medical services in disasters, role of Hyogo Emergency Medical Center, disaster nursing, development of community, health care services in disasters, observation of disaster drills, discussions with related organizations, observation trips to other areas in disaster, and workshop for formulation of action plans.	IMPLEMENTING PARTNER	Hyogo Emergency Medical Center	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2010~2012	
	REMARKS and WEBSITE		