

(33) Environmental Management: Water Pollution

Target Group	①Administrative officer							
	※Type	PITD	PITD	PITD	PITD	PITD	PITD	PRTD
Program No.	1080006	1080103	1080215	1080224	1080822	1080992	1084021	
Program Title	Domestic Wastewater Treatment Techniques	Operation and Maintenance of Sewerage System and Waste Water Treatment technique	Measures Against Urban Environmental Problems	Pollution Control for Hazardous Substances in the Environment	Marine Environment Protection for Senior Officials in the Maritime Authorities and Law Enforcement Authorities	Meta-City Environmental Policy and Environmental Management System	Industrial Pollution Control Management for Middle Eastern Countries	
Cooperation Period	2010~2012	2008~2010	2006~2010	2006~2010	2008~2010	2010~2012	2006~2010	
New/Cont.	Revised	Cont.	Cont.	Cont.	Cont.	Revised	Cont.	
Development Strategic Objectives	Target Group	Administrative Officer, Engineer	Administrative Officer, Engineer	Government official	Administrative engineer	Officer	Government official	Technical Official
1. Improve ability to conserve water quality /to control water contamination noting each role of governments, business, citizens & research institutions (incl. universities)	1-1 Improve legal system	●	●	●	●	●	●	●
	1-2 Improve organizations/human resources			●	●	●	●	●
	1-3 Improve finances							
	1-4 Enhance scientific expertise concerning water environment	●	●		●			
	1-5 Enhance businesses' environmental management ability	●	●				●	
	1-6 Improve citizens' ability to address water contamination	●	●			●	●	●
	1-7 Improve ability of research institutions incl. universities to address water contamination					●		
2. Improve water conservation/ water contamination control measures appropriate to relevant body of water	2-1 Improve water conservation/water contamination control measures in rivers	●	●	●	●		●	●
	2-2 Improve ground water conservation/ground water contamination measures			●				
	2-3 Improve water conservation/ water contamination measures in lakes and marshes							
	2-4 Improve water conservation/ water contamination measures in closed sea areas							
JICA CENTER	KIC	KIC	SIC	OSIC	OIC	OSIC	KIC	
OTHER MATRICES INCLUDING THIS PROJECT	(6) Water Resource		(35) Solid Waste Management	(35) Solid Waste Management	(6) Water Resource	(34) Air Pollution (35) Solid Waste Management	(34) Air Pollution	
PROGRAM OUTLINE (PAGE No.)	396	395	387	413	389	388	414	

PRTD	①Administrative officer ②NGO, Researcher, Educational Institute			③Engineer, Doctor					
	PITD	PITD	PITD	PITD	PITD	PITD	PITD	PITD	PRTD
1084246	1080988	1080997	1080007	1080105	1080762	1080779	1080815	1080962	1084018
Effluent Pollution Control Caused by Mining and Manufacturing Industries for Central and South America	Integrated Basin Management for Lake Environment	The Integrated Water Management of Coastal Seas / Bays and Catchment Areas	Eco Model City - Sustainable City Planning through Community Participation -	Sewerage Technology for Wastewater Control and Urban Drainage	Operation and Maintenance of Sewerage Systems	Sewage Works Engineering and Stormwater Drainage Technology	Industrial Wastewater Treatment Technique	Water Environmental Monitoring	Sewage Treatment Technique for Central America and the Caribbeans
2010~2012	2010~2012	2010~2012	2010~2012	2008~2010	2008~2010	2010~2012	2008~2010	2010~2012	2010~2012
Revised	Revised	Revised	Revised	Cont.	Cont.	Revised	Cont.	Revised	Revised
Government official, Resercher	Government official, Resercher, Engineer	Administrative officer, Engineer	Administrative officer	Administrative engineer	Engineer	Engineer	Engineer	Engineer	Engineer
●	●	●	●					●	●
●	●	●	●					●	●
	●					●			
●							●		
		●	●			●			●
●									
	●					●		●	
		●	●						
OSIC	OSIC	HIC	KIC	OSIC	SIC	TIC(Economic)	KIC	TIC(Economic)	CIC
	(28) Nature Conservation	(6) Water Resource	(35) Solid Waste Management				(6) Water Resource	(6) Water Resource	(6) Water Resource
399	182	395	377	394	394	371	396	393	397

※ PITD = International Training and Dialogue
PRTD = Region Focused Training and Dialogue

(34) Environmental Management: Air Pollution

Target Group	①Administrative officer					
	PITD	PRTD	PRTD	PRTD	PRTD	
※Type						
Program No.	1080992	1084021	1084076	1084286	1084287	
Program Title	Mega-City Environmental Policy and Environmental Management System	Industrial Pollution Control Management for Middle Eastern Countries	Promotion of Cleaner Production for Southern and Eastern European Countries	Air Pollution Source Management	Countermeasure against Automobile Pollution in Urban Area	
Cooperation Period	2010~2012	2006~2010	2008~2010	2009~2011	2009~2011	
New/Cont.	Revised	Cont.	Cont.	Cont.	Cont.	
Development Strategic Objectives	Objectives	Government official	Government Official	Governmental Official	officer, technical officer	Governmental Official
1. Enhance ability to control environmental pollution (air pollution) through cooperation among industry, academia (research institutions), citizens & government.	1-1 Improve policy planning ability of governments	●	●	●		●
	1-2 Improve governments' ability to implement pollution control measures	●	●	●	●	●
	1-3 Promote environmental education & learning by governments		●			
	1-4 Enhance science & technology to support governments in forming & implementing more effective policies	●		●	●	●
	1-5 Enhance businesses' ability to address environmental problems	●	●	●	●	●
	1-6 Improve citizens' capability to address environmental problems (air pollution)	●			●	
	1-7 Enhance ability of research institutions incl. universities to address environmental problems (air pollution)					
2. Facilitate to implement air pollution control measures	2-1 Promote local air pollution control measures		●		●	●
	2-2 Promote measures to address transboundary air pollution in the region					
	2-3 Promote global air pollution control					
JICA CENTER	OSIC	KIC	KIC	KIC	OSIC	
OTHER MATRICES INCLUDING THIS PROJECT	(33) Water Pollution (35) Solid Waste Management	(33) Water Pollution				
PROGRAM OUTLINE (PAGE No.)	388	414	407	393	392	

PITD	PITD	PRTD	②NGO, Researcher, Educational Institute		PRTD
			PITD	PRTD	
1080885	1080937	1084138	1080864	1084078	1084155
Cleaner Production through Productive Maintenance	Ozone Layer Protection and the Global Warming Countermeasures~ Measures to Reduce the Controlled Substances of the Montreal Protocol and the Kyoto Protocol ~	KOICA-JICA JOINT TRAINING PROGRAM (Environmental Protection Technology & Management for Air Pollution Control)	Air Quality Management Policy	The Acid Deposition Monitoring Network in East Asia	Cleaner Production in Process Industries for Latin American Countries (for Managers and Engineers of Process Industries)
2009~2011	2010~2012	2008~2010	2010~2012	2008~2010	2008~2010
Cont.	Revised	Cont.	Revised	Cont.	Cont.
officer, technical officer	Governmental Official	Government Officials, Researchers	Governmental Technical Officer	Technical Officers, researcher	manager, engineer
	●	●	●		
	●	●	●		
	●	●	●	●	
●		●	●		●
				●	
	●				
				●	
KIC	TIC(Ind'l)	KIC	TIC(Economic)	HIC	KIC
	(36) Environment: Cross-sectoral				
406	409	391	391	392	406

※ PITD = International Training and Dialogue
PRTD = Region Focused Training and Dialogue

(35) Environmental Management: Solid Waste Management

Target Group								
※Type		PITD	PITD	PITD	PITD	PITD	PITD	PITD
Program No.		1080007	1080091	1080100	1080121	1080215	1080224	1080226
Program Title		Eco Model City - Sustainable City Planning through Community Participation -	Solid Waste Management by Local Government	Waste management Technique and Environmental Education	WASTE MANAGEMENT and 3R (Reduce, Reuse and Recycle) POLICIES	Measures Against Urban Environmental Problems	Pollution Control for Hazardous Substances in the Environment	Comprehensive Waste Management Technique
Cooperation Period		2010~2012	2008~2010	2008~2010	2009~2011	2006~2010	2006~2010	2006~2010
New/Cont.		Revised	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Development Strategic Objectives	Target Group	central, local government officer	Administrative and Technical Official	Officials engineers	Administrative officers, technical officers	Government Official	Administrative Engineers	Engineers
1. Improve SWM capability	1-1 Improvement of systems	●	●	●	●	●	●	●
	1-2 Improvement of organizations	●			●			
	1-3 Improvement of finances							
	1-4 Improve cooperation with the private sector	●	●	●	●	●		●
	1-5 Improvement of technology		●	●		●	●	●
2. Establish SWM system appropriate to target society	2-1 Due consideration to culture & society	●		●				●
	2-2 Promote involvement by SW generator to SWM system	●	●	●		●		●
	2-3 Improve environmental management ability of SW generators (corporations)					●		
JICA CENTER		KIC	HIC	KIC	TIC (Economic)	SIC	OSIC	OIC
OTHER MATRICES INCLUDING THIS PROJECT		(33) Water Pollution				(33) Water Pollution	(33) Water Pollution	
PROGRAM OUTLINE (PAGE No.)		377	401	386	400	387	413	399

①Administrative officer											① Administrative officer ② NGO, Researcher, Educational Institute
PITD	PITD	PITD	PRTD	PRTD	PRTD	PRTD	PRTD	PRTD	PRTD	PRTD	PRTD
1080802	1080974	1080992	1084006	1084017	1084026	1084146	1084209	1084224	1084305	1084074	
Urban Solid Waste Management by Local government	Seminar on Comprehensive Solid Waste Management and the 3R	Mega-City Environmental Policy and Environmental Management System	Establishment of Sound Material Cycle Society for ASEAN Countries	Capacity Development for Local Government in Comprehensive Solid Waste Management in the Republic of Peru	Waste Management Technology and 3Rs for Central and South American Countries	Waste Management for Promoting Recycling-Oriented Societies in Central and South America	Creation of Recycling Society based on Hazardous Waste Management and Appropriate Disposal in Asia	Solid Waste Management with Community Participation	Sustainable Solid Waste Management in Caribbean Islands	Dissemination of Education for Sustainable Development through environmental education in Pacific Region	
2008~2010	2010~2012	2010~2012	2009~2011	2010~2012	2010~2012	2010~2012	2010~2012	2010~2012	2009~2011	2008~2010	
Cont.	Revised	Revised	Cont.	Revised	Revised	Revised	Revised	Revised	Cont.	Cont.	
Administrator	Administrator	Government Official	Government Official	Gov't Official	Government Official	Government Official	Mid Career Officials	Governmental Officer	Officer	Cov. Official, NGO	
●	●	●	●	●	●	●	●	●	●	●	
								●	●	●	
									●	●	
●	●		●	●	●	●	●	●	●	●	
				●	●	●	●		●	●	
●	●		●	●	●	●	●		●	●	
OSIC	YIC	OSIC	KIC	CBIC	SIC	CBIC	YIC	KIC	OIC	HIC	
		(33) Water Pollution (34) Air Pollution									
401	400	388	404	403	402	402	405	404	405	403	

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(36) Environmental Management: Cross-sectoral

Target Group	①Administrative officer							
	*Type	PITD	PITD	PITD	PITD	PITD	PITD	PITD
Program No.	1080066	1080106	1080133	1080572	1080793	1080811	1080936	
Program Title	Adaptation for Climate Change	Workshop on Administration of Environmental and Social Consideration Process for Implementation of a Japanese ODA Loan Project	Pollution Control and Local Environmental Management	Development of Strategies on Climate Change	Capacity Building for Policy Staff regarding Kyoto Mechanism	Risk Management and Residue Analysis of Chemicals for Environmental Safety	Environmental Impact Assessment in ODA Projects (EIA as a Tool for Sustainable Development)	
Cooperation Period	2008~2010	2008~2010	2009~2011	2010~2012	2008~2010	2008~2010	2010~2012	
New/Cont.	Cont.	Cont.	Cont.	Revised	Cont.	Cont.	Revised	
Development Strategic Objectives	Objectives	Administrative officer	Technical Officer	Adm. and Technical officer	Administrative officer	Adm. and Technical Officer	Technical Officer	
1. Enhance ability to control environmental pollution through cooperation among industry, academia (research institutions), citizens & government	1-1 Enhance governments' policy making ability	●		●	●	●	●	
	1-2 Enhance governments' ability of implementing measures	●	●	●	●	●	●	●
	1-3 Promote information arrangement and enlightenment activity by government	●	●	●	●			●
	1-4 Promote science & technology to support governments' ability to formulate/implement measures more effectively						●	
	1-5(a) Improve enterprises' ability to mitigate global warming							
	1-5(b) Enhance business' ability of environmental management (by introduction of CP etc.)							
	1-6 Improve citizen's ability to prevent and mitigate global warming							
	1-7 Enhance research institutions (incl. universities) capability of preventing global warming							
2. Promote implementation of measures against global warming control	2-1 Promote local measures against global warming	●			●	●		
JICA CENTER	TBIC(Training and Partnership)	TIC(Economic)	CBIC	TBIC(Training and Partnership)	CBIC	HIC	TIC(Economic)	
OTHER MATRICES INCLUDING THIS PROJECT								
PROGRAM OUTLINE (PAGE No.)	408	412	388	408	409	414	387	

PRTD	PRTD	PRTD	PITD	①Administrative officer			②NGO, Researcher, Educational Institute			
				PITD	PITD	PITD	PRTD	Long-term	Long-term	PRTD
1084088	1084148	1084280	1080765	1080780	1080937	1084290	1081206	1081210	1084105	1084141
Mitigation of Climate Change in the Southeast Asia and Oceania Region	Capacity Development in Environmental Management (Air and Water Pollution Control) for Middle Eastern countries	Promotion of Project Formulation of Clean Development Mechanism in Central Asia and Caucasus Region	Adaptive Watershed Management for Flood Countermeasures by Climate Change and Conservation of Ecosystem	Reinforcement of Meteorological Services	Ozone Layer Protection and the Global Warming Countermeasures ~ Measures to Reduce the Controlled Substances of the Montreal Protocol and the Kyoto Protocol ~	Enhancement of Administrative Capacity for Promoting Environmental Education	Human resource development program in environmental management and material cycle society (Master's Degree: Engineering or Environmental management)	Nagoya University Global Environmental Leaders Program: Climate Change, Water and Waste Management and Biodiversity Conservation (Master's Degree: Environmental Studies / Engineering)	Capacity Development for Adaptation to Climate Change - Climate Change Analysis (Regional) South America Region	Capacity Development for Adaptation to Climate Change - Climate Moderating and Analysis
2010~2012	2008~2010	2009~2011	2009~2011	2008~2010	2010~2012	2009~2011	2009~2011	2009~2011	2010~2011	2008~2010
New	Cont.	Cont.	Cont.	Cont.	Revised	Cont.	Cont.	Cont.	New	Cont.
Administrative officer	Government Official, Engineer	Administrative officer	Administrative officer, Mid-level working officer	Administrative officers, technical officers	Government Official	Government Official, NGO	Gov. Official, Researcher	Gov. Official, Researcher	Resercher	Administrative officer
●	●	●	●	●	●	●		●		
●	●	●	●	●	●	●				
●		●		●		●				
			●	●			●	●	●	●
TBIC(Training and Partnership)	OSIC	CBIC	OBIG	TIC(Economic)	TIC(Ind'l)	HIC	KIC	CBIC	TIC(Economic)	TIC(Economic)
					(34) Air Pollution					
410	398	411	386	194	409	390	390	412	410	411

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(37) Enhancing Development Effectiveness

Target Group	①Administrative officer				①Administrative officer ②NGO, Researcher, Educational Institute		②NGO, Researcher, Educational Institute ③Engineer, Doctor	
	※Type	PITD	PITD	PITD	PRTD	PITD	PRTD	PRTD
Program No.	1080833	1080835	1080994	1084170	1080027	1084098	1084308	
Program Title	Seminar on Evaluation of Japanese ODA Loan Projects	Japanese ODA Loan Seminar	Enhancement of Local Government Administration and Public Services (Participatory Local Development)	International Cooperation Seminar for the Central and South American Countries	Management of Human Capacity Development	Knowledge-based Management for ASEAN	Strengthening for Implementation Capability of Development Training under South-South Cooperation	
Cooperation Period	2006~2010	2008~2010	2008~2010	2008~2010	2010~2012	2010~2012	2009~2011	
New/Cont.	Cont.	Cont.	Cont.	Cont.	Revised	Revised	Cont.	
Development Strategic Objectives	Target Group	Administrative Officer	Administrative officer	Administrative officer	Administrative officer	Top Management of Human Resource Dev.	Top Management	Training Implementation Officer
1. Capacity Development	1-1 Organizational Management / Development					●	●	
	1-2 Capacity Development of Institution and Society			●				●
2. Effective and Efficient Utilization of Development Resources	2-1 Improvement of Capacity to Formulate Development Strategy							
	2-2 Improvement of Capacity to Formulate Development Cooperation Policies		●		●			
	2-3 Improvement of Capacity to Manage Bilateral Cooperation Programs	●						
	2-4 Promotion of South-South Cooperation							●
JICA CENTER	TIG(Public)	TIG(Public)	OSIG	TIG(Public)	TIG(Public)	TIG(Public)	TIG(Public)	
OTHER MATRICES INCLUDING THIS PROJECT			(9) Local Governance					
PROGRAM OUTLINE (PAGE No.)	416	417	211	418	416	417	422	

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How to read the Program Outline

Capacity Development for Research-based Policy Formulation towards Quality Improvement in Education for Sub-Saharan Africa ※1 アフリカ地域 研究を基礎とした教育の質的向上のための政策形成能力開発 ※5		※2 PTD Solution 1080130 Sector : Education Sub-Sector : Education Administration	※3 ※4
Target Countries: Sub-Saharan Africa ※8		※6 6 participants /	※7 English
OBJECTIVE ※9 [Course Objective]: To study and share the approaches of research/evidence-based policy formulation in education through making action plan for quality education. [Expected Outputs]: 1. To deepen the understanding of methods and cases that translate research results into education policies and measures, based on experiences accumulated in Asia. 2. To review and share empirical cases of policies and practices on issues concerning education quality. 3. To deepen the understanding of mechanisms in which policy decisions are taken based on research outputs/evidence. 4. To be able to critically analyze the ways of research-based policy formulation implemented in Japan and other Asian countries and to draw lessons. 5. To write up an interim report which includes a draft action plan to be carried out in the country as well as the ways of research-based policy formulation. 6. To write up and submit a final report within 2 months after the program in Japan.		TARGET ORGANIZATION / GROUP ※11 [Target Organization] Central Ministry of Education and University [Target Groups] (1) Educational Administrators or University researchers (2) Those with over five years' experience in (1) above	
CONTENTS ※10 <Third Country Phase in Asian Country> 1. Visiting one of Asian countries to learn the examples of research-based policy formulation in education and utilization of research outcomes to educational administration <Core Phase in Japan> 2-1. Inception report presentation to share experiences and cases in home country. 2-2. Lectures and discussions about relevant research question and methodology. 3. Lectures and discussions about the relationship between educational administration and research in Japan and possible ways of utilizing research outcomes. 4. Discussion of experiences and knowledge about research/evidence-based policy formulation in education among the training participants and the resource persons. 5. Individual country teams' work to produce an interim report including a draft action plan and make presentation. <Finalization Phase in home country> Submission of a final report based on the experiences acquired in the program.		PROGRAM PERIOD Nov / 8 / 2010 ~ Dec / 11 / 2010 ※12	
		IMPLEMENTING PARTNER Center for the Study of International Cooperation in Education, Hiroshima University ※13	
		JICA CENTER JICA Chugoku ※14	
		COOPERATION PERIOD 2009~2011 ※15	
		REMARKS and WEBSITE ※16 It is strongly recommended to nominate 1 researcher and 1 educational administrator as a team from the same country to promote collaboration between academia and administrator.	

***1 PROGRAM TITLE (English/Japanese)**

***2 Types of Training**

There are three types of Training and Dialogue Programs, Group, Region-Focused, and Long Term.

***3 Standard Category**

JICA has classified Group and Region-Focused Training Programs into four standard categories as shown below, in order to clarify the objectives of the Group and Region-Focused Training Programs.

***4 PROGRAM NUMBER**

***5 GLOBAL ISSUES (SECTOR / SUB-SECTOR)**

***6 CAPACITY**

Number of participants for each program.

***7 LANGUAGE**

Generally English to promote accessibility to all countries.

***8 TARGET COUNTRIES**

In the case of programs which require the participating countries to fulfill certain conditions such as geographical conditions, social circumstances, or representation in international conventions or bodies, the condition is shown here.

***9 OBJECTIVE**

The objective which should be achieved by participants and/or participating organizations following completion of the program.

***10 CONTENTS**

Description of the program in terms of issues and forms (i.e., lecture, practice, discussion etc).

In some cases, <Preparatory Phase> or <Post-program Activities> may be included as a part of the overall program.

<Preparatory Phase>

Activities which should be performed by participants / participating organizations prior to the visit to Japan (e.g. preparation seminar, research, report writing etc).

<Post-program Activities>

Activities which should be performed in the home country following completion of the Program in Japan, so as to diffuse outputs of the program from individual participants to the participating organization or society of recipient country (e.g. implementation of Action Plan, submission of Final Report etc).

***11 TARGET ORGANIZATIONS / TARGET GROUP**

[Target Organizations] indicates the type of organization targeted by the program.

[Target Group] shows specific qualifications / requirements of participants.

***12 PROGRAM PERIOD**

Total period spent in Japan from arrival to departure. (NB: Subject to change)

***13 IMPLEMENTING PARTNER**

Organizations primarily responsible for implementation of the program.

***14 JICA CENTER**

JICA domestic center responsible for management of the program.

***15 COOPERATION PERIOD**

Fiscal years in which the program will be provided (normally 3 years).

***16 REMARKS&WEB SITE**

Other information relevant to the program, such as the background, details of partner organization and bodies, qualifications / academic degrees available to participants etc. as well as website address are provided here.