

18. Environmental Management

Target Countries :

Course No. : J1604290

Sector : Environmental Management/Air Pollution/Acid Rain

Sub-Sector :

Language : English

Outline

To reduce potential adverse impacts of air pollutants on human health and ecosystems in developing countries, proper air quality management is required at all levels. This project aims to develop capacity for air quality management based on scientific tools, including atmospheric monitoring, emission inventory and model simulation, making use of the knowledge and experiences that Japan possesses.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 Through obtaining the module outputs indicated below, participants are to develop a proposal which contributes to the improvement of the air quality management capacity of the countries of participants at local, national and regional level, through making use of the knowledge and techniques obtained in Japan.</p> <p>【Outcome】 1. To understand a whole scheme of air quality management. 2. To understand the techniques of air quality monitoring and the key issues in establishing air quality monitoring scheme, and to examine the applicability to the participant's country or region. 3. To understand the sources of air pollutants and the key issues in determining emission levels, and to examine the applicability to the participant's country or region. 4. To formulate a feasible Action Plan for air quality management in a country or region.</p>	<p>【Target Organization】 Central/local government, research institute, public organization responsible for air quality management</p> <p>【Target Group】 Participants should meet the following conditions.</p> <ol style="list-style-type: none"> 1. Nominated by their government. 2. Veteranian, who is engaged in air quality management administration in central or local governments. 3. At least 3 years job experience. 4. Graduates of university 	
Contents	Course Period	2016/07/10 ~ 2016/08/11
<p>(Prior Activity) Develop a report on the current situation and challenges of air quality management of the participant's country or locality.</p> <p>(Training in Japan) The following lectures, practices and site visits are to be conducted.</p> <p>(1) Japan's Air Quality Management Policy, Policy Framework for Stationary and Mobile Sources, Effects of Air Pollutants, Environmental Quality Standards.</p> <p>(2) Outline of Air Quality Monitoring, Monitoring Techniques, Monitoring Scheme at National and Local Levels, Quality Assurance and Quality Control, Analysis and Evaluation of Monitoring Data, Observation of Monitoring Stations.</p> <p>(3) Source of Air Pollutants, Development of Emission Inventory, Modeling of Transportation and Chemical Processes, Characteristics and Selection of Models, Verification of Effectiveness of Countermeasures through Models, Practices of Simulation Models.</p> <p>(4) Development and Presentation of Action Plan.</p> <p>(Post-training Activity)</p>	Implementing Partner	Japan Environmental Sanitation Center
	Department in Charge	Global Environment Department
	JICA Center	JICA Tokyo (Economy&Env.)
	Cooperation Period	2016~2018
	Remarks and Website	The contents have been reviewed and improved based on the experience in the previous training course "Air Quality Management Policy".

Target Countries : Countries that require automobile pollution prevention plans

Course No. : J1604267

Sector : Environmental Management/Air Pollution/Acid Rain

Sub-Sector :

Language : English

Outline

This course offers methods to design road traffic environment management plan, focusing on automobile pollution countermeasures, taking into account not only technical aspects of automobile exhaust gas countermeasures but also social aspects such as urban transport planning and approach to Environmentally Sustainable Transport (EST) centering on public transport as Environmentally Sound Technology (EST).

Objective/Outcome	Target Organization / Group	
<p>【Objective】 Ability to prepare plans for automobile pollution countermeasures will be improved in participating organizations.</p> <p>【Outcome】 1. Identify problems about automobile pollution in their organizations (in charge of automobile pollution control and urban / traffic planning). 2. Understand about outlines of automobile pollution countermeasures through case studies of Osaka (countermeasures, methodologies, relationship with citizens). 3. Understand automobile emissions in participating country and methods of emission management as the basis of preparing automobile pollution countermeasures. 4. Understand the planning principle for introduction and dissemination of sustainable transport system and acquire methods of public education. 5. Prepare a draft action plan for countermeasures against automobile pollution. 6. Share and examine the draft action plan in the participating organizations.</p>	<p>【Target Organization】 National and local government organization in charge of drafting policies for automobile pollution countermeasures and urban traffic measures</p> <p>【Target Group】 - Administrative or engineering official who belongs to the above mentioned organization. - 3 years of experience working with environmental controls. - Have a competent command of spoken and written English</p>	
Contents	Course Period	2016/11/01 ~ 2016/11/30
<p>[Preliminary Phase] Preparation of Job Report</p> <p>[Phase in Japan] 1. Laws and ordinances, history and case studies of automobile pollution countermeasures in Osaka City, experiences of automobile pollution prevention plans of Osaka City 2. Observation: air pollution constant monitoring facility, real vehicle experiment of automobile exhaust gas Practice: measurement of automobile exhaust gas, calculation of emissions, atmospheric dispersion simulation 3. Urban traffic planning, investigation and projection of traffic volume, Environmentally Sound Technology (EST) and Environmentally Sustainable Transport (EST), traffic jam countermeasures, mobility management, Energy saving 4. Presentation of Job Report, workshop and presentation of Action Plan</p> <p>[Finalization Phase] Sharing and implementation of Action Plan in the participating organization</p>	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Kansai (II)
	Cooperation Period	2016~2018
	Remarks and Website	

Operation and Maintenance of Sewerage System 下水道システム維持管理		1684790
		Continuing
		30 participants
Target Countries : _____		
Course No. : J1604273/J1604338/J1604381		
Sector : Environmental Management/Water Pollution		
Sub-Sector :		
Language : English		
Outline		
By the cooperation of the local city governments, who owns and manages the sewerage systems in Japan, the participants will grasp the overview of the sewerage system, including the management aspect. The course mainly deals with the sewerage systems for large cities, but the systems for small-medium scale will be also introduced.		
Objective/Outcome	Target Organization / Group	
The Action Plans drafted based on this training course is implemented and the sewerage condition is improved. 1. be able to explain the laws in Japan regarding the sewerage system and the policies and practices by the local government. 2. be able to explain the basic technologies for the planning and designing of sewerage system (sewer networks and treatment facilities) and characteristics of each treatment method. 3. be able to explain the basic technologies for the maintenance management of sewerage system (sewer networks and treatment facilities). 4. be able to explain the practices of financial management of sewerage systems and public relations activities. 5. be able to explain the regulations of the sewer treatment imposed on the business sector and its practices. 6. be able to formulate sewerage systems improvement plans as "Action Plans".	【Target Organization】 Governmental organization engaged in sewerage 【Target Group】 1. Engineers engaged in sewer works 2. Occupational experience of more than 5 years in the area 3. Bachelor or equivalent. 4. Fluent in English.	
Contents	Course Period	2016/08/14 ~ 2016/10/01
1. Laws in Japan for the sewerage systems, History of sewerage system development in Japan, History of environmental protection, Practices for river project and drinking water project by the local government including disaster management 2. Planning of sewerage systems, Planning and designing of sewage networks and plant, Sewage treatments methods, Small-medium scale sewerage systems 3. Maintenance management for sewer networks, treatment plants and pumping stations 4. Financial management and public relation activities by the local government 5. Water quality regulations imposed on business sectors(plants and factories), Practice of wastewater treatment by business sectors 6. Action plan preparation & presentation, formulation & submission of final report	Implementing Partner	Road and Sewerage Bureau, City of Fukuoka Kitakyushu International Techno-cooperative Association Urban Infrastructure
	Department in Charge	Global Environment Department
	JICA Center	JICA Kyushu/JICA Kansai (I)
	Cooperation Period	2014~2016
	Remarks and Website	(A) 2016/08/14-2016/10/01 (English:Kyushu) (B) 2017/01/08-2017/03/04 (English:Kyushu) (C) 2016/09/04-2016/10/29 (English:Kansai)

Water Environment Administration 水環境行政		1684793 Continuing 13 participants
Target Countries : _____		
Course No. : J1604279		
Sector : Environmental Management/Water Pollution		
Sub-Sector : Environmental Management/Environmental Administration		
Language : English		
Outline		
Participants learn experience of pollution related to water environment, and sustainable preservation and utilization of water environment in Japan. Especially learn history and outline about preparation of legal structure. Based on it, learn roles of administration, private sector and citizens. Finally aims to enhance the ability for making and implementation of policy in participant's organization.		
Objective/Outcome		Target Organization / Group
【Objective】 Action plan which is formulated based on training course is implemented and Water Environment Administration on participant's organization is strengthened.		【Target Organization】 1. Central/local government. (Policy making or water environment management) 2. Public organization in charge of water environment management 【Target Group】 1. Person who be in charge of Policy making or water environment management in central/ local government. (1 person) 2. Person who be in charge of water environment management in public organization. (1 person)
【Outcome】 1. To be able to explain water environment administration and effort of local government. And utilize it to water environment administration in participant's country. 2. Understand about countermeasures for water environment, then to be able to explain measures for adaptation to prepare water environment policy which is suited to situation of each country and area. 3. Feasible action plan for improvement of water environment administration is prepared.		
Contents		Course Period
1. Outline of water environment management in Japan, history of pollution related to water environment and damage conditions and cause of it. History of enactment, the entire systems and roles of various measures (source of water supply, inland water, closed sea area, ground water, and soil environment in farm land and urban area which effect to water environment) for overcome of pollution, and sustainable conservation and utilization of water environment. Water environmental quality standard, role of central/local government, private sector and citizens. Issues of water environment in the world and international agreement. 2. Countermeasures for conservation of water quality for source of water supply. water quality monitoring, water supply project, management of wastewater, water use regulation, waste water treatment technique with septic tank and without septic tank, sewerage project. 3. Exercises for policy-making method, issue analysis through preparing job report, sharing information among each country by presentation, preparing action plan and guidance by lecturer.		Implementing Partner
		Department in Charge
		JICA Center
		Cooperation Period
		Remarks and Website

Wastewater Treatment Techniques 排水処理技術		1684794 Updated
Target Countries : _____		9 participants
Course No. : J1604042		
Sector : Environmental Management/Water Pollution		
Sub-Sector :		
Language : Spanish		
Outline		
This program is designed for participants to gain necessary knowledge and techniques to implement wastewater treatment system suited to their respective countries, and to formulate measures adaptive to their own countries.		
Objective/Outcome	Target Organization / Group	
【Objective】 To acquire the knowledge and skills for planning and implementation of wastewater treatment system, which are suitable for their countries, and to be shared at their countries. 【Outcome】 (1) To understand the measures of wastewater treatment in Japan and explain issues comparing those of countries. (2) To understand the importance of wastewater treatment in relation to the preservation of water environment and living environment, and explain effective measures and treatment technology in their countries. (3) To gain basic knowledge and skills on sewage treatment planning and techniques, maintenance and management of wastewater treatment facilities and propose techniques which are applicable in their countries. (4) To be proposed the policies of the sewage treatment system, based on the knowledge and skills acquired during the training course and submitted the progress report to JICA after upon.	【Target Organization】 Central/local government or public organizations that are in charge of planning, operation and maintenance of sewage treatment facilities 【Target Group】 Technical officials in charge of sewage treatment at central/local governments or public organizations	
Contents	Course Period	2016/08/30 ~ 2016/10/29
(Module.1) ・ Overview of local administration ・ Issue Analysis Workshop (Module.2) ・ Water quality control ・ General theory of wastewater treatment technique (Module.3) ・ Sewage treatment planning ・ Sewage treatment management ・ Septic tank ・ Maintenance and management of wastewater treatment facilities (Module.4) ・ Review Discussion ・ Action Plan Preparation ・ Action Plan Presentation (Module.5) ・ Dissemination activities (Post-Program) ・ Submission of dissemination activity report (Post-Program)	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Chugoku
	Cooperation Period	2016~2018
	Remarks and Website	

Target Countries : The countries are planning to develop sewerage (GDP1000~4000\$ per capita)

Course No. : J1604112/J1604137

Sector : Environmental Management/Water Pollution

Sub-Sector : Urban/Regional Development/Urban Development

Language : English

Outline

In order to improve the hygienic environment and to reduce flood damages in developing countries, it is essential to draft a plan and implement a project for appropriate sewage and urban stormwater drainage management. Participants will understand the basic concept of sewage (sewerage) and urban stormwater drainage (removal of rain water) management and draft a master plan for sewage and urban stormwater.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 To acquire basic knowledge on planning necessary for sewage and urban stormwater drainage, and to understand the necessary approaches and process to formulate master plans in the future.</p> <p>【Outcome】 1. (Preliminary Phase) To understand the present situation of sewage and urban stormwater drainage management, and to identify challenges in each respective country. 2. To understand the basic concept of sewage and urban stormwater drainage management, and be able to consider appropriate approaches to tackle their challenges. 3. To be able to explain the approaches and process from planning to construction of sewage and urban stormwater drainage management. 4. To make an action plan including a master plan (draft) for sewage and urban stormwater drainage management, the decision-making process (draft) considering community participation and challenges and prospect in the participants' countries.</p>	<p>【Target Organization】 Central/local government or public organizations which have implemented/are planning to implement sewage treatment (sewerage system project). 【Target Group】 1. Officials in charge of upgrading sewerage system 2. To have more than three years of operational experience in the fields 3. To be a university graduate (civil engineering) or a person with equivalent qualification 4. To be thirties in principle.</p>	
<p>Contents</p> <p>1. Preliminary Phase (1) Preparation of a country report.</p> <p>2. Core Phase in Japan (1) To understand the basic concepts of sewage and urban stormwater drainage management. (2) To learn about the project implementation in Japan (3) To understand the process of formulating project plans and technical aspects of each technology. (4) To understand sewerage financing, methods for operation and maintenance (5) To consider the implementation system for projects, public education, low-cost technologies etc.</p> <p>3. Finalization Phase (1) To share and consider the action plan among participants' organizations.</p>	<p>Course Period</p> <p>Implementing Partner</p> <p>Department in Charge</p> <p>JICA Center</p> <p>Cooperation Period</p> <p>Remarks and Website</p>	<p>Under Planning</p> <p>Under Planning</p> <p>Global Environment Department</p> <p>JICA Tokyo (Economy&Env.)</p> <p>2016~2018</p> <p>(A) Under Planning (English:Tokyo) (B) Under Planning (English:Tokyo)</p>

Development of Recycling Policy リサイクル制度設計		1684815
		Continuing
Target Countries : _____		12 participants
Course No. : J1604134		
Sector : Environmental Management/Industrial Solid Wastes		
Sub-Sector : Private Sector Development/Small and Medium Enterprises/Supporting Industries Promotion		
Language : English		
Outline		
To achieve sustainable economic growth in developing countries, there is a growing necessity for establishing a society with environmentally-sound material cycle by effective utilization of resources. For this purpose, industrial policy approach which promotes development of recycling industry is essential. This course fosters talent to plan recycling policy through learning Japanese experience such as EPR.		
Objective/Outcome	Target Organization / Group	
【Objective】 Participants will be able to understand key concepts related to recycling policy, and enhance their capacity for planning policy which promotes development of recycling industry in their home country.	【Target Organization】 Ministries engaged in development of recycling policy, industrial waste management or development of recycling industry such as supporting for SMEs.	
【Outcome】 1. (Preparatory activity) To understand and recognize the current situation, issues and problems of the recycling industry to be tackled in their home country. 2. To be able to explain the background and necessity of creating a society with an environmentally-sound material cycle in each developing country, and an essential policy approaches for this purpose. 3. To understand recycling systems and policies in Japan and explain difference from systems in their countries. 4. To be able to explain key concepts related to 3R Industrial Policy. 5. To understand and explain the differences in recycling facilities between Japan and their countries through visits to facilities related to recycling. 6. To be able to explain the applicability of recycling systems and approaches in Japan and issues to achieve it. 7. To be able to discuss specific future activities to promote recycling policy in their countries.	【Target Group】 1. be core person in charge of development of recycling policy, industrial waste management or development of recycling industry in related ministries. 2. be over 30 years old in principle.	
Contents	Course Period	2016/07/24 ~ 2016/08/10
【Preliminary Phase】 1. Preparation of Inception Report 【 Core Phase】 1. Presentation of Inception Report/Discussion 2. Lectures regarding (1) background of the necessity for society with an environmentally-sound material cycle, 3R policy, Recycling Industrial Policy approach. (2) laws relating to 3R, Environmental organization, comparison of each country. (3) key concepts related to 3R Industrial Policy (Extended Producer Responsibility, industrial parks (EIP), quality standards for recyclables and products made from recycled material, and role for ministry in charge of industrial etc.) 3. Visits to recycling facilities and productions facilities. 4. Group discussion on recycling policy in their countries in the view of environmental regulation policy and industrial policy. 5. Group discussion on outcomes of the training and future activities in their countries.	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Tokyo (Economy&Env.)
	Cooperation Period	2015~2017
	Remarks and Website	

Enhancement of Solid Waste Management Capacity (Advance, Planning&Policy) 廃棄物管理能力向上(応用、計画・政策編)		1684798
		Continuing
Target Countries : _____		40 participants
Course No. : J1604086/J1604087/J1604099/J1604088		
Sector : Environmental Management/Urban Solid Wastes		
Sub-Sector :		
Language : English/Portuguese		
Outline		
Through lectures and field visits about Japanese strategies and activities by government (central and local), corporates and communities, this course aims to clarify the issues and enhance capacity of solid waste management, especially recourses circulation, 3Rs, social awareness and participation. Through the above, participants will formulate action plans towards sustainable recycle-oriented society.		
Objective/Outcome	Target Organization / Group	
【Objective】 Participants clarify their respective countries' issues on SWM, and formulate action plans concerning measures for a sustainable recycle-oriented society.	【Target Organization】 Central and local government, related organizations, or corporates engaged in solid waste management	
【Outcome】 1. To clarify the common issues and country specific issues regarding SWM. 2. To comprehend the laws, regulations and systems of solid waste management of Japanese central and local government, and to clarify the differences between Japan and participants' respected country. 3. To comprehend concepts and methods of resource recycling and 3Rs and to find the way to apply to participants' country. 4. To acquire the know-how to build a sustainable society through the cases or activities of government, communities, and corporates. 5. To formulate an action plan towards a sustainable recycle-oriented society .	【Target Group】 <Expected job title> Administrative officers of governments(central and local) and related organizations <Expected job experiences> more than 3 years experiences in SWM <Other> participants should stay engaged in SWM after the programme	
Contents	Course Period	2016/06/13 ~ 2016/07/09
1-1. Inception report presentation and discussion 1-2. Present situation of solid waste problems 2-1. Environmental plans, policies, laws of Japan and local government 2-2. Government operations of SWM 3-1. Reduce (3R) 3-2. Recycle (3R) 3-3. PPP, cooperation with private sectors 4-1. Environmental Education 4-2. Social awareness and participation, Environmental Education 5. Discussions and formulation of action plans	Implementing Partner	Learning and Ecological Activities Foundation for Children, Kyoto Municipal Center For Promotion of Environment Protection
	Department in Charge	Global Environment Department
	JICA Center	JICA Kansai (II)
	Cooperation Period	2014~2016
	Remarks and Website	(A) 2016/06/13-2016/07/09 (English:Kansai) (B) 2016/10/24-2016/11/19 (English:Kansai) (C) 2016/08/15-2016/10/08 (Portuguese:Kansai) (D) 2016/08/22-2016/09/17 (English:Kansai)

Advancement of Solid Waste Management Technologies (Advance, Technique) 廃棄物管理技術(応用、技術編)		1684801
		Continuing
Target Countries :		24 participants
Course No. :J1604268/J1604272		
Sector :Environmental Management/Urban Solid Wastes		
Sub-Sector :		
Language :English/Myanmar		
Outline		
This program is designed for engineering officers engaged in waste management. In particular, it focuses on treatment processes of sanitary landfill and 3R rather than collection and transportation as an advanced course. Participants will be able to learn about relevant techniques such as an innovative project of Eco-town, semi aerobic landfill, composting, industrial waste treatment and so forth.		
Objective/Outcome	Target Organization / Group	
<p>【Objective】 Participants will be able to elaborate and propose their action plans to technically improve existing processes (in particular, final disposal and intermediate treatment) through the course contents.</p> <p>【Outcome】 1. Be able to explain an outline of waste management policy and administration in Japan including Kitakyushu City. 2. Be able to explain concrete technologies that are applied to treatment processes of collection, transportation, incineration, intermediate treatment and final disposal in Japan. 3. Be able to explain policy outline, resource recycling technology and final disposal for dealing with industrial wastes. 4. Be able to examine and identify possible ideas to be applied for technical improvement.</p>	<p>【Target Organization】 Governmental organization engaged in waste management</p> <p>【Target Group】 1. Engineering officers in charge of waste treatment processes on collection, transportation, intermediate treatment and final disposal 2. Occupational experience of more than three (3) years in relevant field</p>	
Contents	Course Period	2016/07/10 ~ 2016/09/10
<p>Participants will learn the followings through lectures, site visits, practices and discussions.</p> <p>1. Waste management administration and planning of Kitakyushu City, Establishment of sound material cycle society, Eco-town project, Life cycle assessment of waste, Overview of solid waste management in developing countries and Japanese assistance 2. Separate collection, Incineration technology, Recycling technology (Eco-town), Composting technique, Biogas recovery, Refuse Derived Fuel (RDF), Structure and maintenance of semi aerobic landfill site, Leachate treatment, Composition analysis of refuse 3. Industrial waste administration, Countermeasures against illegal dumping, Treatment and recycling technologies for sludge, waste oil and plastic refuse 4. Job report presentation, Issue analysis workshop, Group review discussion, Instruction of action plan</p>	Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
	Department in Charge	Global Environment Department
	JICA Center	JICA Kyushu
	Cooperation Period	2014~2016
	Remarks and Website	(A) 2016/07/10-2016/09/10 (English:Kyushu) (B) 2016/10/02-2016/12/03 (Myanmar:Kyushu)

Target Countries : Island Countries or countries with islands

Course No. : J1604028

Sector : Environmental Management/Urban Solid Wastes

Sub-Sector :

Language : English

Outline

Compared to the situation in landlocked countries, recycling companies (or NGOs) in island countries do more important roll for sound recycling society as an entrance and exits of recyclable materials. However, they are facing with many disadvantages such as little scale merits and high exporting costs, etc. This course will enhance sustainability of their business and thus make the firm recycling society.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 To make the recycling business improvement plan utilizing what participants gained in Japan</p> <p>【Outcome】</p> <ol style="list-style-type: none"> 1. To summarize the current situation, issues, and best practices etc. in the business report. 2. To acquire the framework and History of recycling in Japan. 3. To acquire solutions for the efficient recycling business. 4. To make the business plan by using recycling business management and management consultation. 	<p>【Target Organization】 Recycling entrepreneurs or NGOs have priority. Central or local ministries which supervises recycling business is acceptable.</p> <p>【Target Group】 Have more than three (3) years of experience in recycling field. Have a good command of English. Not be serving in military. This course doesn't expect educational background to the participants, but hopefully basic PC skill such as Microsoft office.</p>	
Contents	Course Period	2016/05/11 ~ 2016/06/11
<ol style="list-style-type: none"> 1-1 Presentation of business report. 2-1 Law and measure of recycling in Japan. 2-2 History, current situation and issues of recycling of Japan. 2-3 International trend of recyclable resources. 3-1 Technology, techniques and knowhows of recycling equipment, dismantlement, disretion, compression and packing, etc. 3-2 How to approach information on recycling business, Mechanism of pricing of recyclable resources. 3-3 Business management, social responsibility (CSR), and safety management of recycling business. 3-4 Cash flow and sustainability of recycling business. 4-1 Making short-term business plan or business improvement plan utilizing what participants acquired in Okinawa. 4-2 Presentation and discussion on business plans with Okinawan specialists. 	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Okinawa
	Cooperation Period	2015~2017
	Remarks and Website	

Comprehensive Waste Management 総合的な廃棄物管理(全般)		1684805 Continuing 60 participants
Target Countries : _____		
Course No. : J1604121/J1604089/J1604091/J1604300/J1604313		
Sector : Environmental Management/Urban Solid Wastes		
Sub-Sector : Environmental Management/Industrial Solid Wastes		
Language : English/Spanish		
Outline		
This program aims to draw applicable solution for waste management by learning from Japanese cases of waste management policy, appropriate technology of SWM, social awareness and citizen participation. In addition to the above, it is expected to share good examples of respective country's SWM and finally make action plan.		
Objective/Outcome		Target Organization / Group
【Objective】 Participants propose an action plan which aims central/local government of participating county to practice appropriate solid waste management (reduction of discharge, collection, transportation, disposal, etc.)and promote social awareness and active participation with stakeholders (including citizens).		【Target Organization】 Department responsible for solid waste management in local or central government, or equivalent organization
【Outcome】 1. Understanding and sharing the situation, activities and good examples of waste management in respective countries to get idea for the solution of each difficulty. 2. Understanding the history, outline and characteristics of waste management policy in Japan and extracting hints for improvement comparing with the status of respective country. 3. Understanding the appropriate technology for waste management including collection, transportation, waste incineration treatment, intermediate treatment and final disposals. 4. Understanding the management policy and activities for promoting social awareness, citizen participation and recycling-oriented societies through 3R. 5. Understanding the policy, plan, treatment and resource recycling technology of Industrial waste		【Target Group】 1. Official in charge for solid waste management in central/local government or in equivalent organization 2. Person who is a graduate of university or equivalent level
Contents		Course Period
1. Country report presentation /Action plan presentation/Discussion etc.		2016/06/06 ~ 2016/07/09
2. Historical development of waste management and world trend/Basic plan for waste management/consensus formation/outsourcing to the private sector and private-public initiative/Organization of waste management/Legal system of waste management etc.		Implementing Partner (A)City of Sapporo, Japan Environmental Sanitation Center/(B) Learning and Ecological Activities Foundation for children/(C/D)Hvogo
3. Plan and system of collection and transportation of municipal waste/Operation and maintenance of garbage truck/Intermediate waste transportation facility//Time and Motion Study/waste incineration treatment/intermediate treatment technology /Treatment facility for bulk waste/resource recycling facility/Treatment of biodegradable waste, compost and bio gas/Type and structure of final disposal site etc.		Department in Charge Global Environment Department
4. Environmental and waste education/Social awareness for the waste/Citizen participation etc.		JICA Center JICA Hokkaido (Sapporo)/JICA Kansai (Ⅱ) /JICA Chubu
5. Industrial waste management/Field survey and plan for industrial waste/ Countermeasure for illegal dumping of industrial waste/infectious medical waste etc.		Cooperation Period 2014~2016
		Remarks and Website (A) 2016/06/06-2016/07/09 (Spanish:Hokkaido(Sapporo)) (B) 2017/02/06-2017/03/04 (Spanish:Kansai) (C) 2016/08/15-2016/10/08 (English:Kansai) (D) 2017/01/09-2017/03/04 (English:Kansai) (E) 2017/01/11-2017/02/25 (English:Chubu)

Management of Composting Project コンポスト事業運営		1684810	
		Continuing	
Target Countries : _____		20 participants	
Course No. : J1604396/J1604397			
Sector : Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language : English/Spanish			
Outline			
This training program intends to transfer techniques and know-hows on management of composting projects, including technical information, quality control, marketing, and capacity development of stakeholders. Since organic waste represents around 60% of total waste in developing countries, promotion of composting is effective as a measure to reduce solid waste.			
Objective/Outcome		Target Organization / Group	
【Objective】 The drafted action plan at the end of the training course is actually implemented as it is planned in the organizations in charge of composting projects in the local government and, as a result, composting projects are disseminated.		【Target Organization】 Departments that deal with waste management in the local government, especially using composting methods.	
【Outcome】 1. Be able to explain about overview of national/local policies and systems on waste management. 2. Be able to explain about overview of technical information of composting. 3. Be able to explain about marketing strategies and distribution channels. 4. Be able to formulate an action plan to improve composting projects.		【Target Group】 1. Be in charge of waste management at the local government 2. Have more than 3 years of occupational experience in the area of waste management at the local government	
Contents		Course Period	
1. Legal framework of sound material cycle society in Japan, overview of solid waste administration, policies and strategies of waste management in Kitakyushu City 2. Theories and practices on composting methods according to scales, observations of compost center 3. Socialization of composting projects, source separation and collection of organic waste, cost-benefit analysis of projects, observation and discussion on successful case 4. Action plan formulation and discussions		2016/10/01 ~ 2016/11/01	
		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
		Department in Charge	Global Environment Department
		JICA Center	JICA Kyushu
		Cooperation Period	2015~2017
		Remarks and Website	
		(A) 2016/10/01-2016/11/01 (English:Kyushu) (B) 2016/08/01-2016/09/01 (Spanish:Kyushu)	

Target Countries : _____

Course No. : J1604274

Sector : Environmental Management/Urban Solid Wastes

Sub-Sector :

Language : English

Outline

This training program intends to promote introduction and effective management of semi aerobic landfill (Fukuoka Method), one of techniques for final disposal site. Participants are able to enhance practical knowledge and techniques, as the curriculum covers design, maintenance, and conservation of surrounding environment, focusing on practices.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 The drafted action plan is actually implemented, construction plan of “Semi Aerobic Landfill Site (Fukuoka Method)” will be proposed, then method of Aerobic Landfill Site will be disseminated.</p> <p>【Outcome】 1. Be able to explain about various methods of waste disposal around the world. 2. Be able to explain about methodologies for designing of semi aerobic landfill. 3. Be able to explain about maintenance management of semi aerobic landfill. 4. Be able to explain about environmental management in semi aerobic landfill. 5. Be able to formulate an action plan for improvement of landfill sites.</p>	<p>【Target Organization】 Governmental organizations in charge of management of the final disposal site</p> <p>【Target Group】 1. Staffs in charge of management and maintenance of the final disposal site 2. Occupational experience of more than 5 years in the area 3. Be under 50 years old</p>	
Contents	Course Period	2016/10/10 ~ 2016/11/12
<p>【Preliminary Phase】 Preparation of a report on overview and challenges of landfill sites.</p> <p>【Core Phase in Japan (lecture, practice and/or field study)】 1. Waste disposal in Fukuoka City, Examples from foreign countries to introduce semi aerobic landfill 2. Site selection, Theories on semi aerobic landfill, Construction of the new disposal site, Improvement of existing disposal site 3. Entrance management, Operations for dumping and soil-covering, Leachate treatment 4. Composition analysis of solid waste and leachate, Quality control of discharged water, Inspection of underground water and generated gas, Application to CDM (Clean Development Mechanism) 5. Action plan formulation and discussions</p> <p>【Finalization Phase】 1. Formulation and submission of reports to present progress of Action Plan 2. Follow-up seminars, according to the progress</p>	<p>Implementing Partner</p>	<p>Fkuoka Environment Foundation</p>
	<p>Department in Charge</p>	<p>Global Environment Department</p>
	<p>JICA Center</p>	<p>JICA Kyushu</p>
	<p>Cooperation Period</p>	<p>2015~2017</p>
	<p>Remarks and Website</p>	<p>Duration: 2016/10/10-2016/11/12</p>

Improvement of Solid Waste Management Technologies (Basic, Technique) 廃棄物管理技術(基本、技術編)		1684813
		Continuing
Target Countries : Continental countries and island countries with urban population over 100,000		12 participants
Course No. : J1604085		
Sector : Environmental Management/Urban Solid Wastes		
Sub-Sector :		
Language : English		
Outline		
It aims at providing integrated training for solid waste management: planning, collection, intermediate treatment, final disposal, and recycling by learning mainly from Osaka City. It is designed suitable for practitioners (engineer, technician, local/central government officer) in solid waste management to acquire necessary knowledge and skills towards better solid waste management in their country.		
Objective/Outcome		Target Organization / Group
<p>【Objective】 More practical and effective solid waste management plan is proposed and discussed in related organizations in targeted countries based on the Action Plan designed by participant(s) in this training program.</p> <p>【Outcome】</p> <ol style="list-style-type: none"> Through the introduction of common issues on solid waste problems among participating countries, each participant recognizes, exchanges, and discusses how to tackle with solid waste problems. Participants gain an overall view of mechanism and initiatives in waste management learning from cases in Osaka City. Participants learn about 1) collection and transportation, 2) intermediate treatment such as incineration, crushing, sorting and recycling, and 3) final disposal Regarding hazardous waste (including medical waste), participants learn the theory of their generation and the methodology of proper treatment. Participants learn how to encourage citizens, who must be main actors, to take part in waste management activities. Participants analyze prioritized problem to be solved and develop an Action Plan for practical and feasible action to mitigate the waste problems. Through a series of workshops, they will share and implement the Action Plan in their country. 		<p>【Target Organization】 Local Government, National Government which supports local government, and/or private sector(s) in the field of urban solid waste management.</p> <p>【Target Group】</p> <ol style="list-style-type: none"> Local/National Government Officers, technicians, engineers having more than 3 years experience in the field of solid waste management Language: Good ability of spoken and written English.
Contents		Course Period
<ol style="list-style-type: none"> Solid waste management for sustainable society, integrated solid waste management, waste amount & composition survey Waste management administration in Japan, Master Plan for household waste management in Osaka City, collection & transportation in Osaka or other cities in Kansai region, environmental education, industrial waste treatment, research institute Time & Motion Study, waste collection, transfer facilities and operation 3R Policy (waste reduction, reuse and recycling) actions in Osaka or other cities in Kansai region, composting & recycling, intermediate treatment facilities (incineration plant) Selection and planning of final disposal site, improvement, operation and maintenance of final disposal site, sanitary landfill technology (Fukuoka Method) Outline of hazardous waste disposal, medical waste disposal, industrial waste disposal, countermeasures against illegal Dumping Public-Private cooperation, efforts towards recycling and education by business sectors Job Report presentation, Action Plan preparation, Project Cycle Management workshop 		2016/05/09 ~ 2016/07/02
		Implementing Partner
		Global Environment Centre Foundation (GEC)
		Department in Charge
		Global Environment Department
		JICA Center
		JICA Kansai (II)
		Cooperation Period
		2014~2016
		Remarks and Website

Target Countries : CARICOM Member States

Course No. : J1604032

Sector : Environmental Management/Urban Solid Wastes

Sub-Sector :

Language : English

Outline

This course is designed for solving solid waste management issues which participating organizations are facing, and also enhancing regional cooperation

Objective/Outcome	Target Organization / Group	
<p>【Objective】 Ability for solid waste management in participating organization is improved</p> <p>【Outcome】 1. Issues on solid waste management in respective countries are sorted out. 2. Issues on sustainable solid waste management are sorted out again considering the situation of Okinawa and Japan. 3. Issues on establishing participatory solid waste management are sorted out. 4. Solution for the issues sorted out above is drawn up.</p>	<p>【Target Organization】 Central/Local ministries or relevant organizations in charge of solid waste management. Companies belong to recycling companies association</p> <p>【Target Group】 Staff of target organizations with more than 3 years of experience in this field. University graduate or equivalent. Have a good command of English. Healthy in both physically and mentally. Not be serving in military.</p>	
Contents	Course Period	2016/08/17 ~ 2016/10/01
1. Preparation of presentation materials and Formulation of Job Report 2. Solid Waste Management Legislation in Japan 3. Waste management in Japan and developing nations 4. Current situation and issues of final disposal site 5. Fukuoka Landfill Method and case study of improvement on landfills 6. Role of municipality, Necessity for citizens and companies to cooperate 7. Collection of garbage by type through citizens and companies cooperation 8. Recycling and tackle by private sector 9. Environmental education 10. Various style of recycling ・Composting ・Wasted tires ・Waste to energy 11. Discussion on the plan which aim sustainable solid waste management 12. Identify key problem of solid waste management in respective countries and organizations 13. Discussion on the direction for solution creation 14. Formulation and presentation of an action plan	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Okinawa
	Cooperation Period	2015~2017
	Remarks and Website	

Target Countries : ASEAN members and Pacific region

Course No. : J1604207

Sector : Environmental Management/Urban Solid Wastes

Sub-Sector :

Language : English

Outline

Solid waste management (SWM) data is very important for the officers in charge of SWM to understand the situation, to set the target, to enhance resident's understanding and cooperation. But, there are few good practices. This training course is designed for the SWM officers to study collection, methodology and analysis of SWM data such as waste generation, collection, recycling, disposal and composition.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 A waste annual report and a draft master plan of solid waste management which make good use of the data are formulated.</p> <p>【Outcome】 1. Able to explain how Japan utilized waste data for waste management in the past 2. Able to explain kinds of basic waste data, collection method and evaluation 3. Able to explain how waste data is utilized for present analysis, future planning and citizens 4. Able to explain how waste data is utilized through the site visit of waste management facilities 5. Able to explain the methods of waste annual report making and future planning such as a draft master plan of solid waste management</p>	<p>【Target Organization】 The central or local government in charge of solid waste management in ASEAN and Pasific region countries</p> <p>【Target Group】 1. It is advisable that one central and one local gov. officers participate at the same time. 2. 45 years old or less 3. Having more than 3 years of SWM experience. 4. It is better if the officers regarding collection, processing and calculation of SWM.</p>	
Contents	Course Period	2017/01/25 ~ 2017/02/18
<p>【Preliminary Activity】 Making report of current situations of solid waste data in country</p> <p>【Training in Japan】 1. Lecture: History of waste management, waste statistics, public sanitation, waste data, detailed waste data topic, collection of waste data, data calculation and analysis, waste management project evaluation in Japan, evaluation method, waste management planning method, case study of data collection and analysis in JICA projects 2. Observation: Waste transfer station, treatment/recycling/disposal facility 3. Exercise: Data collection and calculation of waste collection and transportation, transfer station and landfill site, drawing chart and figure 4. Discussion and formulating Action Plan: Share experiences among the participants about data collection and get a solution for improvement. Compile waste annual report and make draft master plan of solid waste management</p>	Implementing Partner	Japan Environmental Sanitation Center
	Department in Charge	Global Environment Department
	JICA Center	JICA Yokohama
	Cooperation Period	2016~2018
	Remarks and Website	

Adaptation to Climate Change 気候変動への適応		1684816
		Continuing
Target Countries : can nominate suitable participant for 3yrs continuously		15 participants
Course No. : J1604062		
Sector : Environmental Management/Global Warming		
Sub-Sector :		
Language : English		
Outline		
It focuses on policy making such as international framework and Japan's policy on Adaptation to Climate Change in 1st year, while it focuses on sectoral Adaptation approaches such as forecast of Climate Change, Impact Assessment on Climate Change, Sectoral vulnerability assessment (ex. agriculture, disaster prevention) in 2nd-3rd years.		
Objective/Outcome		Target Organization / Group
【Objective】 The system to formulate or revise measures and policies about Adaptation to Climate Change will be strengthened in participant's organization.		【Target Organization】 a national governmental office which is in charge of policy making of adaptation to Climate Change
【Outputs】 1. To understand the international framework and trends on adaptation to Climate Change. 2. To understand impact assessment, vulnerability assessment and forecast on Climate Change 3. To understand Japan's policy, Japanese measures, technology and cases on adaptation to Climate Change. 4. To formulate an Action Plan for solving the problems on Adaptation to Climate Change in participant's respective organizations. 5. To share and review the Action Plan(draft of measures and policies about Adaptation to CC) across the participant's respective organization.		【Target Group】 1. An officer in charge of planning and implementation of adaptation to Climate Change in national governmental office. (Preferably be an officer in national focal point of UNFCCC, who is in charge of coordination of adaptation issues in respective countries, or an officer in charge of policy making on adaptation to Climate Change) 2. Have more than 3 years of experience in the relevant field.
Contents		Course Period 2016/09/25 ~ 2016/10/22
【Preliminary Phase】 To make Inception Report		Implementing Partner Infrastructure Development Institute
【Core Phase in Japan】 Presentation and discussion on Inception Report 1. ~3. Lectures, discussion, practical exercises and site visits Overview of UNFCCC and place of adaptation, International framework of adaptation to Climate Change(hereinafter, "CC"), Trend of international discussion on adaptation to CC Process of formulation and implementation of measures on adaptation, Observation and forecast of CC, Impact Assessment on CC, Sectoral vulnerability assessment, Japan's policy on Adaptation to CC JICA's cooperation towards developing countries on Adaptation to CC, Japanese measures, technology and cases on Adaptation to CC, Good practices of developing countries on Adaptation to CC, PCM (Project Cycle Management) workshop 4. Making Action Plan to solve the problems on Adaptation to CC in respective countries		
		Department in Charge Global Environment Department
		JICA Center JICA Tsukuba (Training)
		Cooperation Period 2014~2016
【Finalization Phase】 5. To make and submit Final Report and discuss draft of measures and policies about Adaptation to CC in related organization		Remarks and Website

Industrial Pollution Control Management 産業環境対策		1684781 Continuing 12 participants
Target Countries : _____		
Course No. : J1604271		
Sector : Environmental Management/Environmental Administration		
Sub-Sector :		
Language : English		
Outline		
In many countries, environmental pollution has been a growing concern. Kitakyushu City, one of Japan's industrial areas, has been implementing environmental measures to overcome the pollution it went through in the past and now is known as one of Japan's most eco-friendly regions. This program aims to share its knowledge and experience with other countries and to develop human resources in the field.		
Objective/Outcome		Target Organization / Group
【Objective】 A department concerning industrial pollution control can formulate improvement measures for environmental pollution issues.		【Target Organization】 Departments of the government / municipal offices in charge of industrial environmental management
【Outcome】 1. Be able to explain air pollution control administration and pollution control technique, and propose a solution for the issue. 2. Be able to explain water pollution control administration and pollution control technique, and propose a solution for the issue. 3. Be able to explain waste disposal administration and recycling technique, and propose a solution for the issue 4. Be able to explain environment improvement technique, and propose a practical action plan for the department to which participants belong.		
Contents		Course Period
Participants will learn following contents through lectures, site visits, discussions and presentations. 1. Air pollution Control: Administration, Dust collection, Exhaust gas treatment, Environmental measures of city gas industry, Environmental pollution control measures of chemical industry etc. 2. Water pollution Control: Administration, Sewage treatment plant, Environmental facility engineering, Water quality monitoring, Treatment technology of industrial wastewater and sewage, Construction, Operation and maintenance of Johkaso system for treatment of domestic waste water etc. 3. Solid Waste Disposal: Incineration of municipal solid waste, Industrial waste administration, Waste recycling business (Eco-town), Inland reclamation disposal, Compost etc. 4. Environment Improve Technique: EIA, Environmental education, Role for governments, Environmental regulation in Japan, Cleaner Production, Formulation & Presentation of Job Report & Action Plan etc.		2017/01/24 ~ 2017/04/22
		Implementing Partner
		Department in Charge
		JICA Center
		Cooperation Period
		Remarks and Website

ASEAN Chemical Management ASEAN化学物質管理		1684782 Continuing 20 participants	
Target Countries : ASEAN member states			
Course No. : J1604148			
Sector : Environmental Management/Environmental Administration			
Sub-Sector :			
Language : English			
Outline			
<ol style="list-style-type: none"> 1. Understanding demands in the international community and learning major countries' responses in the field of chemical management 2. Learning current status of chemical management in the ASEAN region. 3. Discussing an action plan to improve each country's chemical management for trade facilitation and development of chemical industry 			
Objective/Outcome		Target Organization / Group	
<p>【Objective】 To understand the international trend and current status in the ASEAN region of chemical regulatory/management system with an aim to improving domestic management system, to facilitating healthy trade and to developing chemical industry. It is expected to be followed by an organizational discussion to reflect it after this training.</p> <p>【Outcome】</p> <ol style="list-style-type: none"> 1. (Prior activities) Analyzing and making a presentation of current situation of chemical management. 2. Learning basic knowledge on chemical management and being able to explain current status of own country's chemical management. 3. Identifying issues and problems/challenges in domestic chemical management system to trade facilitation and development of chemical industry with making comparison of chemical management between own country and other ASEAN countries. 4. Identifying required actions for industrial/private sectors in each country in a globalized environment. Being able to explain expected actions based on the knowledge obtained from lectures as well as site visits. 5. (Follow-up activities) Reviewing the proposed solutions in each country. 		<p>【Target Organization】 Government authorities and related organization which are responsible for planning national chemical management policy, and related associations in chemical industry which contribute to the planning and implementation of national chemical management.</p> <p>【Target Group】 • Expected Job Title/ Administrative officials , staffs , or experts who are in charge of planning and executing chemical management system of industrial use in national government. Those who have equivalent responsibility in related organization and industry associations. • Expected Job Experience in chemical management for one year or longer. • Must be in good health, both physically and mentally.</p>	
Contents		Course Period 2016/12/11 ~ 2016/12/23	
<ol style="list-style-type: none"> 1. Current status of chemical management in own country 2. Outline of chemical management system. 3. International trend/discussion/actions on chemical management 4. Chemical management system in Japan and it's implementation. (e.g. : Chemical Substances Control Law(CSCL), PRTR, GLP) 5. Globally Harmonized System of Classification and Labeling of Chemicals (GHS) 6. Risk Assessment 7. Responsible-care activities in industrial sectors in Japan 8. Article management promotion by circulating chemical components information through supply-chain 9. Site visits (study lab. and private companies) 10. Considering/ discussing an action plan to improve chemical management in ASEAN region 		Implementing Partner	
		Department in Charge	Global Environment Department
		JICA Center	JICA Tokyo(Industry&Public)
		Cooperation Period	2014~2016
		Remarks and Website	Ministry of Economy, Trade and Industry, Chemical Management Web site: http://www.meti.go.jp/english/policy/safety_security/chemical_management/

Target Countries : Countries which try to ratify Minamata Convention on Mercury

Course No. : J1604035

Sector : Environmental Management/Environmental Administration

Sub-Sector :

Language : English

Outline

This program aims at improving participants' understanding and capacity on procedures of legislative preparation for ratification of Minamata Convention on Mercury. The program provides lectures and inspections to share the lessons from Minamata Disease in Japan and Japan's experience on the preparation, and identify key points and requirements for the ratification of the Convention.

Objective/Outcome	Target Organization / Group	
<p>The activities for the ratification of Minamata Convention on Mercury are promoted in the participants' countries.</p> <ol style="list-style-type: none"> Understand the background and details of the Convention and could be able to explain the key points of the convention. Understand procedural steps toward ratification of the Convention and could be able to explain necessary works for the participants' country. Could be able to discuss challenges and possible solutions for participants' country to ratify the Convention, based on the understanding of the historical background and countermeasures for mercury pollution in Japan. 	<p>【Target Organization】 Organization in charge of ratification of Minamata Convention on Mercury</p> <p>【Target Group】 Administrative or engineering officers in charge of legislative preparation for ratification of Minamata Convention on Mercury</p>	
Contents	Course Period	2016/11/20 ~ 2016/12/24
<p>This program consists of following lectures and inspections.</p> <ol style="list-style-type: none"> Lessons learnt from Minamata Disease in Japan Summary of environmental management in Japan Countermeasures for mercury pollution in Japan Details of Minamata Convention on Mercury (Detail exploration of the Convention text) Japan's situation of preparatory for ratification of the Convention Discussion on the administrative activities of participants 	<p>Implementing Partner</p>	<p>Soshisha, The Supporting Center for Minamata Disease</p>
	<p>Department in Charge</p>	<p>Global Environment Department</p>
	<p>JICA Center</p>	<p>JICA Kyushu</p>
	<p>Cooperation Period</p>	<p>2014~2016</p>
	<p>Remarks and Website</p>	

Target Countries : Island Countries or Countries with islands

Course No. : J1604347

Sector : Environmental Management/Environmental Administration

Sub-Sector :

Language : English

Outline

This course is for central/local government or NGO officers to gain necessary knowledge and skills on conservation and management of water environment, which is the basis of nature, culture and industries etc., through case studies in typical 7 islands in Okinawa.

Concretely, this course will provide how to cope with the management of land areas, as an axis to water environment management.

Objective/Outcome	Target Organization / Group
<p>【Objective】 Participants acquire knowledge and techniques for conservation and management of water environment.</p> <p>【Outcome】</p> <ol style="list-style-type: none"> 1. Current situation and issues on the water environment reservation are sorted out. 2. Participants become able to sort out issues on establishing structure or management of water environment reservation planning/activities. 3. Participants become able to plan approaches programs for water environment conservation in their regions/countries. 4. Action plan is drafted. 5. What participants gained in Japan is shared to the organization. 	<p>【Target Organization】 Central/local government or public organizations in charge of water environment conservation, or NGOs tackling with water environment conservation</p> <p>【Target Group】</p> <ol style="list-style-type: none"> 1. Have more than 3 years of experience in this field. 2. University graduate or equivalent. 3. Have a good command of English in speaking, listening and writing. 4. Healthy in both physically and mentally . 5. Not be served in military.

Contents	Course Period	2017/01/11 ~ 2017/03/17
Collecting relevant information, preparing country report 1. (Discussion) Country Report presentation 2. (Lectures) Ecosystems and nature conservation in island countries, Outline and management of water resources, conservation of coral reefs and mangroves etc. 3. (Practice) Field survey in mangroves, seashores etc. 4. (Lecture) Legal system for water environment, Measures to conserve water quality, Regulations for preventing red-clay erosion, Solid Waste Management, Environmental assessment, Environmental education and public awareness, Rolls of the stake holders, Human resources development etc. 5. (Practice) Various research method, Environmental workshop etc. 6. (Practice) PCM method, Case study on typical islands in Okinawa 7. (Discussion) Action Plan presentation	Implementing Partner	Under Planning
	Department in Charge	Global Environment Department
	JICA Center	JICA Okinawa
	Cooperation Period	2015~2017
	Remarks and Website	

Target Countries : _____

Course No. : J1604284

Sector : Environmental Management/Environmental Administration

Sub-Sector :

Language : English

Outline

Conduct training course dealing with the system and the case study of Environmental Impact Assessment (EIA) in Japan and environmental considerations required in ODA projects.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 1. Enhance the capacity of those from environmental divisions to examine/review EIA reports and their competence to improve the system. 2. Improve the skills and performance of those from development divisions in conducting EIA in a more effective way, and gain capacity and means for environmental protection.</p> <p>【Outcome】 1. Explain the purpose and concept of EIA (Best pursuit beyond regulatory approaches etc.) 2. Explain the characteristics and situation of the EIA systems in their own countries 3. Explain the outline of Japanese ODA and guidelines for environmental consideration by international aid agency such as JICA 4. Explain the EIA reviews (review system, important points) in Japan 5. Explain the basic ideas of survey/ forecast/ evaluation, as well as measures for protecting the environment 6. Explain the process and communication methods required for EIA 7. Create the plan to conduct EIA based on specific development projects 8. Propose the improvement of the EIA systems in their own countries</p>	<p>【Target Organization】 Implementing bodies and reviewing authorities of large-scale development projects (ODA projects etc.) which require EIA in national/ local governments or other relevant organizations</p> <p>【Target Group】 1. Technical administrative officers in charge of EIA have basic knowledge and more than three years of working experience in EIA 2. under 45 years of age. Be university graduate, or have equivalent background in the field</p>	
<p>Contents</p> <p>1. Lecture on the purpose and concept of EIA and the EIA system in Japan 2. Discussion based on the knowledge acquired by (1), to understand the characteristics and situation of the EIA systems in their own countries, compared with those in Japan or in other countries 3. Lecture on the outline of Japanese ODA and guidelines for environmental consideration by international aid agency such as JICA 4. Lecture on the EIA reviews (review system, important points) in Japan, including case studies of national government and local governments 5. Lecture and field work on the basic ideas of survey/ forecast/ evaluation, as well as measures for protecting the environment 6. Lecture on the process and communication methods required for EIA 7. Exercise on Creation of the plan to conduct EIA based on specific development projects, including the discussion on the improvement of the plan and points of the review 8. Discussion on the improvement of the EIA systems in their own countries</p>	<p>Course Period</p>	<p>2016/05/01 ~ 2016/05/28</p>
	<p>Implementing Partner</p>	<p>IDEA Consultants, Inc. (Joint venture)</p>
	<p>Department in Charge</p>	<p>Global Environment Department</p>
	<p>JICA Center</p>	<p>JICA Tokyo (Economy&Env.)</p>
	<p>Cooperation Period</p>	<p>2014~2016</p>
	<p>Remarks and Website</p>	

Target Countries : _____

Course No. : J1604291

Sector : Environmental Management/Other Environmental Management Issues

Sub-Sector :

Language : English

Outline

All of the JICA ODA loan projects have to comply with the "JICA Guidelines for Environmental and Social Considerations". This course provides two weeks intensive and effective training with lectures, exercises and site visits for the officers in charge of environmental and social consideration (ESC) in Japanese ODA loan projects.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 Officers in charge of environmental and social consideration in Japanese ODA loan projects acquire appropriate skills on environmental and social consideration.</p> <p>【Outcome】</p> <ol style="list-style-type: none"> Participants are expected to contribute to the improvement of EIA and resettlement system in respective countries. To be able to understand and explain necessity of implementing the appropriate environmental and social consideration, the practical procedure and technical points in planning and implementing the ODA loan projects in comply with the JICA Guidelines for ESC. To be able to understand the problems on EIA and resettlement system in respective countries and to propose a plan for improvement. 	<p>【Target Organization】</p> <ol style="list-style-type: none"> Organizations which are the counterparts of Japanese ODA loan projects Organizations which manage the ESC things in the country <p>【Target Group】</p> <ol style="list-style-type: none"> Officers in charge of environmental and social consideration in implementing organizations of Japanese ODA loan projects or the country Officers who have the experience to have been involved in implementing EIA or resettlement 	
<p>Contents</p> <ol style="list-style-type: none"> This course provides two weeks intensive and effective training with lectures, exercises and site visits for the officers in charge of environmental and social consideration (ESC) in Japanese ODA loan projects. JICA experts and officers in charge in JICA Head Quarters will be directly involved to make the curriculum and provide lectures. The main components of the lectures are "explanation of the JICA guidelines for ESC", "explanation of EIA reports for category A project" and "explanation of Resettlement Action Plan" which contribute to well understanding of participants toward JICA guidelines for ESC. This course have received more than 20 members every year from 2011 to 2013, which implies the high demand toward this course. The importance of this training becomes higher and higher along with the publication of new JICA Guidelines for ESC. 	<p>Course Period</p> <p>2017/03/30 ~ 2017/04/14</p> <p>Implementing Partner</p> <p>IDEA Consultants, Inc. (Joint venture)</p> <p>Department in Charge</p> <p>Global Environment Department</p> <p>JICA Center</p> <p>JICA Tokyo (Economy&Env.)</p> <p>Cooperation Period</p> <p>2014~2016</p> <p>Remarks and Website</p>	

Management of Sewage Asset Utilizing Asset Management System with Consideration on Disaster Risk Management Management 災害リスク管理に配慮したアセットマネジメントシステムを活用した下水道資産管理		1684832 New
Target Countries : Requiring asset management with consideration on disaster risk management		
Course No. : J1604350		
Sector : Environmental Management/Other Environmental Management Issues		
Sub-Sector : Water Resources/Disaster Management/Other Water Resources/Disaster Management Issues		
Language : Spanish		
Outline		
To realize appropriate management of sewage asset in Latin American countries where sewage infrastructure has been developed at certain level, acquire the knowledge and skills of asset management with consideration on disaster risk management, through the participation of this course.		
Objective/Outcome	Target Organization / Group	
<p>【Objective】 Acquire knowledge and skills suitable to the participants' countries in order to plan and implement disaster prevention measures of sewage facilities as well as operation and management of them, and share them in the participants' countries</p> <p>【Outcome】 1. Understand activities of disaster prevention of sewage facilities and asset management in Japan, and be able to explain them comparing with the actual situation of the participants' countries 2. Understand significance and importance of sewage for conservation of water and living environment, and be able to explain effective measures of the conservation in the participants' countries 3. Prepare an action plan to improve sewage services of the participants' countries based on the knowledge acquired in the course</p>	<p>【Target Organization】 Central or local governments, municipalities, public entities in charge of planning, management and operation of sewage facilities</p> <p>【Target Group】 <Job Title> Senior engineers of sewage facilities in central or local governments, municipalities, public entities <Expected Job Experiences> more than 5 years of work experiences</p>	
Contents	Course Period	2016/10/01 ~ 2016/11/30
(Prior activities)	Implementing Partner	Under Planning
Prepare a country report, identifying actual situation and challenges of disaster prevention of sewage and service of the participants' countries and entities		
(Activities in Japan)	Department in Charge	Global Environment Department
1. Acquire basic knowledge (general information of sewage, sewage system in Japan and Sendai)	JICA Center	JICA Tohoku
2. Measures against earthquakes and tsunami for sewage facilities	Cooperation Period	2016~2018
3. Operation and maintenance of sewage facilities (sewage network facilities, treatment facilities, sewage cadaster)	Remarks and Website	
4. Regulation of sewerage quality and sewer from users		
5. Asset management workshop		
6. Site visit to areas in process of reconstruction from disaster		
7. Elaboration of action plan		
(Ex post activities)		