



Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

OPERATION AND MAINTENANCE OF SEWERAGE SYSTEM (B) 課題別研修「下水道システム維持管理(B)」 *JFY 2017*

NO. J1704432 / ID.1784791

Course Period in Japan: From January 9, 2018 to February 24, 2018

This information pertains to one of the JICA Knowledge Co-Creation Program (Group & Region Focus) of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

'JICA Knowledge Co-Creation Program (KCCP)' as a New Start

In the Development Cooperation Charter which was released from the Japanese Cabinet on February 2015, it is clearly pointed out that *"In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together."* We believe that this 'Knowledge Co-Creation Program' will serve as a center of mutual learning process.

I. Concept

Background

A sewerage facility is one of the most fundamental factors of the urban infrastructure, and the setting up of sewerage and waste water treatment plants in developing countries has achieved certain degree of progress.

Along with the development of the facilities, demand for engineers specialized in maintenance of those facilities has become acute.

Since the appropriate maintenance of sewerage facilities is a vital part of providing a good sanitary environment, technicians who deal with sewerage works are required to have wide-ranging knowledge and techniques.

This course focuses on the appropriate maintenance management of sewerage facilities to prevent water pollution, which contributes to Agenda 21, the action plan proposed at the Earth Summit held in Rio de Janeiro in 1992.

Additionally, the course contributes to ease access to basic sanitary facilities and safe drinking water because of the nature of "water cycle". The access to the safe and clean water is one of the targets in MDGs, through promoting knowledge and technologies in the field.

Through lectures, practices, seminars and observations, participants will acquire explicit /tacit knowledge in operation and maintenance of sewerage systems to be made good use of in their own countries.

For what?

This program aims to promote the sewerage system and its management and maintenance techniques in participants' organizations.

For whom?

This program is offered to senior technical staff directly engaged in sewerage system in governmental organizations.

How?

Participants will learn techniques and know-how in the field through lectures, observations, practices and discussions. In addition, participants are expected to formulate and present an Action Plan at the end of the training program, utilizing the contents in the program, and share the ideas after going back to each country.

II. Description

- 1. Title (J-No.): Operation and Maintenance of Sewerage System (B)
(J1704432)**
- 2. Course Period in JAPAN**
January 9 to February 24, 2018
- 3. Target Regions or Countries**
Albania, Brazil, Cambodia, Liberia, Palau, Papua New Guinea, Samoa,
South Sudan and Tunisia
- 4. Eligible / Target Organization**
This program is designed for the governmental or public organizations which are directly engaged in the maintenance and operation of the sewerage system.
- 5. Course Capacity (Upper limit of Participants)**
10 participants
- 6. Language to be used in this program**
English
- 7. Course Objective**
The Action Plan drafted based on this training course is implemented and the sewerage condition is improved.
- 8. Overall Goal**
Effective sewerage system and its management and maintenance techniques will be established in participants' organizations.

9. Expected Module Output and Contents:

This program consists of the following components. Details on each component are given below:

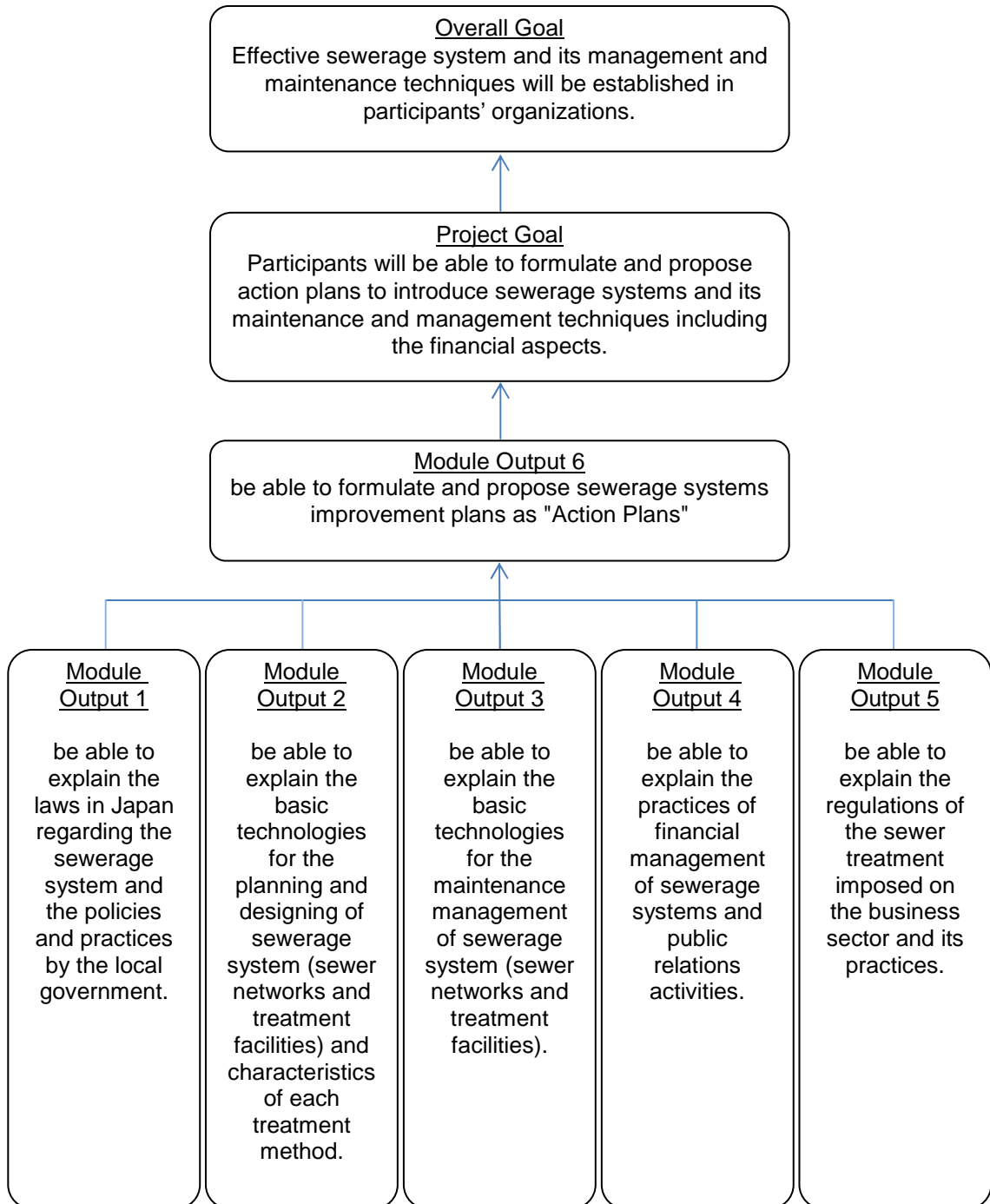
Expected Module Output	Subjects/Agendas	Methodology
1. be able to explain the laws in Japan regarding the sewerage system and the policies and practices by the local government.	(1) History of Environmental Improvement in Kitakyushu (2) Outline of Sewerage System in Japan (3) Summary of Sewerage Systems of Kitakyushu-City etc.	Lecture Site visit and Exercise
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.	(1) Basic Planning of Sewerage System (2) Outline of Sewage Treatment & Sludge Treatment (3) Outline of Johkasou (4) Outline of Electrical & Mechanical System, Designing of Sewage Treatment Plant etc.	Lecture Site visit and Exercise
3. be able to explain the basic technologies for the maintenance management of sewerage system (sewer networks and treatment facilities).	(1) Outline of Pumping Station, Operation & Maintenance (2) Practice of Sewer Maintenance (3) Visit to Sewage Treatment Plant, Outline of Operation & Maintenance, Discussion with Operators (4) Sewer Maintenance in Kitakyushu-City and Visit to actual site of Sewer Maintenance (5) Safety Measures in a Sewage Treatment Plant etc.	Lecture Site visit and Exercise
4. be able to explain the practices of financial management of sewerage systems and public relations activities.	(1) Finance, Management & Publicity of Sewerage Business in Kitakyushu-City (2) Finance & Publicity of Sewerage Business in a Small City (3) Visit to Water Environment Museum in Kitakyushu city	Lecture Site visit

5. be able to explain the regulations of the sewer treatment imposed on the business sector and its practices.	(1) Pre-Treatment Facilities(:SS) at Sanitary Ware Plant (2) Regulation of the Sewerage Inflow of Industrial Effluents in Kitakyushu City (3) Structure & Maintenance of Oil-Trap (4) Pre-Treatment Facilities (oil) etc.	Lecture Site visit and Exercise
6. be able to formulate and propose sewerage systems improvement plans as "Action Plans".	(1) Guidance on Issue Analysis Sheet (IAS) (2) Review, Evaluation & Discussion Session (3) Action Plan Preparation #1-5 (4) Preparation of Action Plan Presentation	Lecture and Exercise

* Please note that "Waste Water (sewage) Treatment Technique" in this training course refers "Activated Sludge Method" which is widely used in Japan. Therefore, the techniques introduced in this training course will be mainly "Activated Sludge Method" and methods of the equivalent level, as well as some advanced methods.

** Please refer to the attached schedule (Annex IV) for your reference.

<Structure of the program>



III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operations. Applying organizations are expected to use the Program for those specific purposes.
- (2) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.
- (3) Applying organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose. This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (4) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the project to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

2. Nominee Qualifications:

Applying Organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties: be senior technical staffs who deal with sewerage system and wastewater treatment.
- 2) Experience in the relevant field: have more than 5 years' experience in the field mentioned above, and be willing to work for your organization in the future (at least 5 years).
- 3) Educational Background: be a graduate of university or equivalent level.
- 4) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more.
- 5) Must not be serving any form of military service.
- 6) Health: must be in good health, both physically and mentally, to participate in the Program in Japan. Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus.

*Please note that this training course includes site visits such as sewerage facility, and factories, therefore, a lot of physical exercises will be required.

(2) Recommendable Qualifications

- 1) Expectations for the Participants: preferably be in relation with past or on-going JICA projects focusing on sewerage treatment.
- 2) Age: between the ages of twenty-five (25) and fifty (50) years
- 3) Educational background: since majority of the curriculums are based on engineering, participants are preferable to own backgrounds in civil engineering or mechanical engineering.
- 4) Others: Participants are expected to be familiar with PC operation, as there will be many chances for report writing and presentations.

3. Required Documents for Application

(1) Application Form: The Application Form is available at **the JICA office (or the Embassy of Japan)**.

(2) Photocopy of passport: to be submitted with the application form, if you possess your passport which you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it.

*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expire date.

(3) Nominee's English Score Sheet: to be submitted with the application form. If you have any official documentation of English ability. (e.g., TOEFL, TOEIC, IELTS)

(4) Job Report and Issue Analysis Sheet (IAS): to be submitted with the application form. Fill in Annex I and II of this General Information, and submit them along with the Application Form. Job Report and IAS are the necessary documents for screening of an applicant. Each participant will be required to present his/her Job report and IAS in approx. 10 minutes in an early stage of the training course. Visual materials such as Power Point and pictures may be helpful for your presentation if you bring them. When you use PowerPoint, it is preferable to use letters more than 24-point and not to use pictures on the background.

4. Procedures for Application and Selection :

(1) Submission of the Application Documents:

Closing date for applications: **Please inquire to the JICA office (or the Embassy of Japan).**

(After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Center in JAPAN** by **October 27, 2017**.)

(2) Selection:

After receiving the documents through proper channels from your government, the JICA office (or the embassy of Japan) will conduct screenings, and then forward the documents to the JICA Center in Japan. Selection will be made by the JICA Center in consultation with concerned organizations in Japan. *The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.* Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.

(3) Notice of Acceptance

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than November 27, 2017.**

5. Document(s) to be submitted by accepted candidates:

A PowerPoint file for Job Report Presentation - to be submitted upon arrival:

Only accepted candidates are required to prepare a PowerPoint file for Job Report Presentation before coming to Japan,

6. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

IV. Administrative Arrangements

1. Organizer:

(1) **Name:** JICA Kyushu

(2) **Contact:** Ms. ISHIMATSU Tomoko (kictp@jica.go.jp)

2. Implementing Partner:

(1) **Name:** Kitakyushu International Techno-cooperative Association (KITA)

(2) **URL:** <http://www.kita.or.jp/english/index.html>

3. Travel to Japan:

(1) **Air Ticket:** The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) **Travel Insurance:** Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Kyushu International Center (JICA KYUSHU)

Address: 2-2-1 Hirano, Yahata Higashi-ku, Kitakyushu-shi, Fukuoka, 805-8505 Japan

TEL: 81-93-671-6311 FAX: 81-93-671-0979

(where "81" is the country code for Japan, and "3" is the local area code)

If there is no vacancy at JICA KYUSHU, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of KIC at its URL, <http://www.jica.go.jp/english/about/organization/domestic/pdf/kyushu01.pdf>

5. Expenses:

The following expenses will be provided for the participants by JICA:

- (1) Allowances for accommodation, meals, living expenses, outfit and shipping
- (2) Expenses for study tours (basically in the form of train tickets)
- (3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy or dental treatment are not included.)
- (4) Expenses for program implementation including materials

For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSU-IN GUIDE BOOK," which will be given before departure for Japan.

6. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy) to provide participants with details on travel to Japan, conditions of the workshop and other matters.

V. Other Information

1. Reports and Presentation

(1) Job Report & Issue Analysis Sheet (IAS)

Each applicant is required to submit his/her own Job Report & Issue Analysis Sheet following the instruction. Participants will have a presentation of his/her Job Report & Issue Analysis Sheet up to 10 minutes at the earlier stage of the training in order to share knowledge and background with other participants as well as instructors. Visual materials such as Power Point and pictures may be helpful for your presentation if you bring them with you.

(2) Action Plan

Participants are required to make an Action Plan at the end of the training to express your idea and plan which you carry out after your return, reflecting the knowledge and method you acquire in the training. Each person will have 10 minutes for presentation.

Also, participants are required to complete IAS by the end of the training and present it at the Action Plan Presentation.

(3) Laptop PC

Participants are requested to bring their own laptops upon arrival in Japan. They will be useful to take notes, modify reports, and prepare for presentations.

2. International Exchange Program with local communities

JICA encourages international exchange between JICA participants and local communities. Participants will have a chance to visit elementary schools, junior high schools or the civic groups. Therefore, participants are recommended to bring their national costumes or crafts and materials such as CDs and photographs that will make the exchange program more fruitful.

3. Remarks

JICA training is implemented for the purpose of development of human resources who will promote the advancement of the countries, but not for the enrichment of individuals or private companies. Matters of a trade secret and patent techniques will remain confidential and inaccessible during the training.

Operation and Maintenance of Sewerage System (B)
(JFY 2017)
Job Report

Name: _____
Country: _____
Organization and present post: _____
E-mail: _____
FAX: _____

Remarks 1: The Report should be typewritten in English (12-point font, A4 size paper), and total pages of the report should be limited to 3 pages (not including organization chart).

Remarks 2: Each participant is required to have presentation in 10 minutes based on this Job Report at the early stage of the training for the purpose of making the training more effective and fruitful by comprehending the situations and challenges of the participants each other.

Remarks 3: Please itemize your answer and make them specific.

1. Situation of Sewerage Treatment Systems in assigned area

- (1) Sewer coverage
- (2) Brief description on sewage treatment facilities (existence, number, type, etc.)
- (3) Method applied for sewage treatment
- (4) Brief description on legal frameworks (numerical standards, fee, restrictions etc.)

2. Organization and main tasks (up to 1 page)

- (1) Brief description of your organization
- (2) Organization chart:
Please draw a chart of your organization including the department (section) names with the number of staffs in it and mark where you are positioned. (The chart should be attached and not be counted in this page limit.)
- (3) Brief description of your assignments.

3. Existing problems in your section (up to 1 page)

- (1) Challenges you are facing
- (2) Countermeasures for these challenges
- (3) Obstacles in the process of solving those challenges

4. Expectations for the training course (up to 1 page)

- (1) Most interesting subjects or topics in the training course
- (2) How do you expect to apply skills and knowledge for overcoming challenges according to listed items in curriculum (in the previous section) after you return to your home country?
- (3) Other matters you are expecting for this course

5. Which of the following specialized technologies have you learned? Please check to signify “YES” or “NO”.

	YES	NO
(1) Civil engineering	()	()
(2) Mechanical engineering.....	()	()
(3) Electrical engineering.....	()	()
(4) Chemical engineering.....	()	()
(5) Environmental engineering.....	()	()
(6) Sanitary engineering.....	()	()
(7) Computer science.....	()	()
(8) Others ().....	()	()

Note: Under“(8) Others” please specify subjects not covered by any items (1) to (7) if any.

6. Which of the following represent your practical work experiences? Please fill in the years of your occupational experience.

	Years of Experience
(1) Planning and designing of wastewater treatment facilities.....	()
(2) Operation and maintenance of wastewater treatment facilities.....	()
(3) Operation and maintenance of industrial wastewater treatment facilities.....	()
(4) Water pollution control administration.....	()
(5) Chemical analysis.....	()
(6) Human excreta treatment.....	()
(7) Jokaso (septic tank) management.....	()
(8) River/water way management in urban area.....	()
(9) Water supply.....	()
(10) Information processing (computer programming).....	()
(11) Others ().....	()

Note: Under “(11) Others” please describe any practical experience that might be related to wastewater treatment techniques but are not covered by items (1) to (10).

Issue Analysis Sheet (IAS) Guidelines

1. What is IAS?

- (1) IAS is a tool to logically organize relationships between issues and contents of the training program in Japan.
- (2) IAS will help the nominee to clarify his/her challenges to be covered in each expected module output and to formulate solutions to them.
- (3) The sheet is to be utilized as a logical process control sheet to draw up improvement plans for the issues by filling out the sheet in phases from prior to the nominee's arrival through to the end of the training.
- (4) In addition, it is used for the course leader and lecturers to understand the issues that each participant is confronting, and provide him/her with technical advice, useful references and solutions through the training program in Japan.

2. How to fill out IAS?

- (1) Please describe the issues you (your organization) confront(s) in column "**A: Issues that you (your organization) confront(s)**".
Prepare the separate rows for each problem; if necessary, please add new rows.
- (2) In column "**B: Actions that you (your organization) are (is) taking**", please describe actions that you (your organization) are taking to solve the issues shown in "**Column A**". This information is very important to carry out the training course and also to make Action Plan as a fruit of the training.
- (3) It's not necessary to fill in column " : **Task or the information that I need**", column " : **Useful information that I obtained/found**" and column " : **Lecturer**". These columns shall be filled out during the training.
- (4) "**Column** " shall be clarified and filled out in the subject "**Task extraction using IAS**" implemented at the earlier time in the training.
- (5) "**Column** " and "**Column** " shall be filled out during the training and you are required to present completed IAS in the subject "**Action Plan Presentation**".

Issue Analysis Sheet (IAS)

Country: _____

Name: _____

No	[A] Issues that you (your organization) confront(s).	No	[B] Actions that you (your organization) are (is) taking.	
1				
	[] Task or The information that I need.		[] Useful information that I obtained /found.	[] Lecturer

No	[A] Issues that you (your organization) confront(s).	No	[B] Actions that you (your organization) are (is) taking.	
2				
	[] Task or The information that I need.		[] Useful information that I obtained /found.	[] Lecturer

No	[A] Issues that you (your organization) confront(s).	No	[B] Actions that you (your organization) are (is) taking.	
3				
	[] Task or The information that I need.		[] Useful information that I obtained /found.	[] Lecturer

[], [] These columns will be filled during the training course.

List of Subject

L : Lecture
P : Practice
S.V. : Site visit

Expected Module Output	No	Subject	L	P	S.V.
1 Be able to explain the laws in Japan regarding the sewerage system and the policies by the local government.	1	Outline of Sewerage system in Japan	○		
	2	Summary of Sewerage Systems of Kitakyushu-City	○		
	3	Sewerage Works & Water Environment	○		
	4	Integrated Lake-River Basin Management and the Governance Challenges	○		
2 Be able to explain the basic technologies for the planning and designing of sewerage system (sewer networks and treatment facilities) and characteristic of each treatment method.	5	Basic Planning of Sewerage System	○		
	6	Sewerage Plan in Kitakyushu-City / Practice	○	○	
	7	Sewer Plan	○		
	8	Visit to Sewage Treatment Plant (Oxidation Ditch)			○
	9	Visit to Munakata Sewage Treatment Plant (Nitrogen Removal)			○
	10	The Actual Biological Process of Sewage Treatment Plant	○		
	11	Outline of Johkasou / Visit to Johkasou Facilities	○		○
	12	Outline of Sewage Treatment & Sludge Treatment	○		
	13	Outline of Electrical & Mechanical System, Designing of Sewage Treatment Plant	○		
	14	Dojou-jouka (Soil Treatment Using Trench) Method	○		
	15	Advanced Energy Saving Wastewater Treatment System (Trickling Filtration Method)	○		
	16	Visit to Iriezaki Sewage Treatment Plant : Advanced Treatment (Kawasaki-City)			○
	17	Visit to a Sewage Treatment Plant (A2F Method)			○
	18	Outline of Small-sized Sewage Treatment Plant Construction	○		
	19	Outline of Private Sewers	○		
	20	Effective Utilization of Sewage Sludge to Cement			○
	21	Fuji-Clean Co. (Johkasou Manufacturing Industry)			○

Expected Module Output	No	Subject	L	P	S.V.
3 Be able to explain the basic technologies for the maintenance management of sewerage system (sewer networks and treatment facilities)	22	Visit to a Pumping Station			○
	23	Visit to Sewage Treatment Plant / Outline of Operation & Maintenance/Discussion with Operators	○	○	○
	24	Sewer Maintenance in Kitakyushu-City	○		
	25	Water Quality Control in Sewage Treatment #1 #2	○	○	○
	26	Visit to G&U Technical Research Center (Tokyo)			○
	27	Management of Wastewater Conduits in Japan (Tokyo)	○		
	28	Practice of Sewer Maintenance (Tokyo)		○	
	29	Sekisui Co. (Sewer Rehabilitation Exhibition)			○
	30	Visit to Sewage Treatment Plant (Soil Treating)			○
	31	How we read a water quality result sheet	○		
	32	Safety Measures in a Sewage Treatment Plant		○	
	33	PACKTEST Practice		○	
	34	Visit to Overflow Weir Site			○
	35	Visit to Saga Sewage Treatment Plant (Sludge Compost)			○
4 Be able to explain the practices of financial management of sewerage system and public relations activities.	36	Finance, Management & Publicity of Sewerage Business in Kitakyushu-City	○		
	37	Finance & Publicity of Sewerage Business in a Small City	○		
	38	Visit to Water Environment Museum			○
5 Be able to explain the regulations of the sewer treatment imposed on the business sector and its practices.	39	Structure & Maintenance of Oil and Grease-Trap	○		
	40	Regulation of the sewerage inflow of industrial effluents in Kitakyushu-City	○		
	41	Visit to Rihga Royal Hotel (Pretreatment Facilities: Kitchen Wastewater)			○
6 Be able to formulate and propose sewerage systems improvement plans as "Action Plans"	1	Review, Evaluation & Discussion		○	
	2	The problem solution using Issue Analysis Sheet	○		
	3	Action Plan Preparation #1		○	
	4	Action Plan Preparation #2 / #3		○	
	5	Action Plan Preparation #4 / #5		○	
	6	Preparation of Action Plan Presentation		○	
	7	Action Plan Presentation		○	

Annex IV
Schedule

Operation & Maintenance of Sewerage System(B), 2017(FY)

*Subject to change

DATE		AM (9:30 ~ 12:30)	PM (13:30 ~ 16:30)
		Subject of the class	Subject of the class
9-Jan	Tue	Arrival in Japan	
10-Jan	Wed	Briefing / Program Orientation	
11-Jan	Thu	General Orientation	General Orientation
12-Jan	Fri	Exchange Program	Course Orientation
13-Jan	Sat	Holiday	
14-Jan	Sun	Holiday	
15-Jan	Mon	Outline of Sewerage System in Japan	Summary of Sewerage Systems of Kitakyushu-City
16-Jan	Tue	Basic Planning of Sewerage System	Sewerage Works & Water Environment
17-Jan	Wed	Job Report Presentation (free discussion)	
18-Jan	Thu	Outline of Small-sized Sewage Treatment Plant Construction	Finance & Publicity of Sewerage Business in a Small City
19-Jan	Fri	Sewer Plan	Review, Evaluation & Discussion
20-Jan	Sat	Holiday	
21-Jan	Sun	Holiday	
22-Jan	Mon	The problem solution using IAS	Outline of Electrical & Mechanical System, Designing of Sewage Treatment Plant
23-Jan	Tue	Sewerage Plan in Kitakyushu-City	Practice of a Sewerage Plan
24-Jan	Wed	Visit to Sewage Treatment Plant / Outline of Operation & Maintenance/Discussion with operators	
25-Jan	Thu	Finance, Management & Publicity of Sewerage Business in Kitakyushu-City	Visit to Mitsubishi Material Co.(Effective Use of sewage sludge to Cement)
26-Jan	Fri	Action Plan Preparation #1	Review, Evaluation & Discussion
27-Jan	Sat	Study Tour to Tokyo ~ Dojyo Joka(Soil Treatment Using Trench) Method(JICA Tokyo (TIC))	
28-Jan	Sun	Holiday	
29-Jan	Mon	Advanced Energy Saving Wastewater Treatment System (Trickling Filtration Method)	Visit to G&U Technical Research Center
30-Jan	Tue	Management of Wastewater Conduits in Japan	Practice of Sewer Maintenance
31-Jan	Wed	Visit to Iriezaki Sewage Treatment Plant : Advanced Treatment (Kawasaki-City)	Kawasaki City ~ Kyoto
1-Feb	Thu	Visit to Sekisui Co. (Sewer Rehabilitation Exhibition)	Visit to Nantan-City Sewage Treatment Plants (Soil Treatment Using Trench Method)
2-Feb	Fri	Integrated Lake-River Basin Management and the Governance Challenges	Structure & Maintenance of Oil-Interceptors
3-Feb	Sat	Kyoto Morning Tour	Kyoto ~ KIC
4-Feb	Sun	Holiday	

DATE		AM (9:30 ~ 12:30)	PM (13:30 ~ 16:30)
		Subject of the class	Subject of the class
5-Feb	Mon	Visit to Munakata Sewage Treatment Plant (Nitrogen removal)	Visit to Tsuyazaki Sewage Treatment Plant (OD)
6-Feb	Tue	Sewer Maintenance in Kitakyushu-City	Actual Biological Process of Sewage Treatment Plant
7-Feb	Wed	Outline of Sewage Treatment & Sludge Treatment	
8-Feb	Thu	Action Plan Preparation #2	Action Plan Preparation #3
9-Feb	Fri	Outline of Private Sewers	Review, Evaluation & Discussion
10-Feb	Sat	Holiday	
11-Feb	Sun	Holiday	
12-Feb	Mon	Holiday	How we read a water quality result sheet
13-Feb	Tue	Outline of Johkasou	Visit to Johkasou Facilities
14-Feb	Wed	Action Plan Preparation #4	Action Plan Preparation #5
15-Feb	Thu	Water Quality Control in Sewage Treatment #1	Water Quality Control in Sewage Treatment #2
16-Feb	Fri	Review, Evaluation & Discussion	Visit to FUJI-Clean Co.(Johkasou)
17-Feb	Sat	Holiday	
18-Feb	Sun	Holiday	
19-Feb	Mon	Effective Regulation for Business Facilities	Safety Measures in a Sewage Treatment Plant
20-Feb	Tue	Practice of PACK-TEST	Hotel(Pretreatment Plant: (Kitchen wastewater) ~ Water Environment Museum ~ Overflow weir
21-Feb	Wed	Visit to Saga Sewage Treatment Plant(Sludge Compost)	Visit to Sewage Treatment Plant (Biological Anaerobic-Aerobic Filters Method : Miyaki-Town)
22-Feb	Thu	Visit to a Pumping Station (Storm water & sanitary sewage)	Preparation of Action Plan Presentation
23-Feb	Fri	Final Evaluation	Action Plan Presentation & Closing Ceremony
24-Feb	Sat	Return to own countries	

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



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