



【Online】 Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

Basics of Solid Waste Management (C)

課題別研修「固形廃棄物管理の基礎(C)」

JFY 2022

Course No. 202110061J001

Online Course Period:from 26 September, 2022 to 21 October, 2022

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) 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)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, which stated, "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." JICA believes that this 'Knowledge Co-Creation Program' will serve as a foundation of mutual learning process.

I. Concept

Background

In developing countries, the amount of generated waste has been increased due to the rapid concentration of the population with active consumption in urban areas. Those wastes cause severe contamination of air and water environment, which result in the loss of precious natural resources and ecosystem. Urgent countermeasures against those wastes are required in many countries.

Japan experienced similar problems and it has come close to achieve a sound material-cycle society in recent years. This has been realized through joint efforts of national government, local governments, private companies, associations, and citizens who have worked and played respective roles to optimize collection and transport, recycling and intermediate treatment, final disposal of waste, and more.

In the global context, UN General Assembly adopted 'Transforming our world: the 2030 Agenda for Sustainable Development' with the 17 Sustainable Development Goals and 169 targets started in 2015. Solid Waste Management (SWM) is addressed in the related SDGs goals and targets. G11 articulates, "Make cities and human settlements inclusive, safe, resilient and sustainable." Target 11.6 goes "By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management." G12 is about "Ensure sustainable consumption and production patterns." Target 12.5 says "By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse." Target 14.1 states the importance of reducing marine pollution in particular from land-based activities, including marine debris and nutrient pollution. In 2019, G20 Osaka Summit, which is hosted by Japan, G20 members and invited 8 countries shared "Osaka Blue Ocean Vision" that we aim to reduce additional pollution by marine plastic litter to zero by 2050. In order to realize the vision, the Government of Japan has launched the "MARINE Initiative" which supports capacity development in developing countries to promote sustainable waste management, recovery of marine litter, innovation and empowerment.

In the course of the SDGs and other international consensuses, JICA works with developing countries for establishing proper solid waste management system. It takes much of the concept of "Integrated Solid Waste Management" which is the underlying principle that leads solid waste management from treatment oriented countermeasures to total management of natural resources. The 3Rs (Reduce, Reuse, And Recycle) initiatives enables solid waste to be recognized as materials for further opportunity consumption or production and promotes circular of resources in the society while raising social awareness about waste reduction.

JICA has provided KCC programs on the bases of such a concept, in particular, various and practical knowledge and experience accumulated in Japanese local governments have been applied.

This course provides participants with knowledge on SWM policy instruments, technologies, stakeholder participation based on the Japan's experience through distance learning, lectures, exercises and observations in Japan.

For what?

This program aims to develop capacity of participants from central/local government and contribute to the improvement of solid waste management system (law, policy, appropriate technology of solid waste management, social awareness, citizen participation, promotion of 3Rs, etc.) in respective countries.

For whom?

This program is designed for officials who are in charge of solid waste management in central/local government or in equivalent organization.

How?

Participants shall have opportunities to learn solid waste management system and technologies by means of distance learning (specified materials provided by Japanese lecturers through internet or other media) and lectures, observations and exercises provided during their visit in Japan. In the end, they will formulate an Action Plan describing how to improve solid waste management in each country by utilizing ideas and experiences acquired in the course.

Sustainable Development Goals (SDGs)

JICA is committed to achieving the SDGs. This program is to contribute to the following goals.



II. Description

**1. Title (Course No.): Basics of Solid Waste Management (C)
(202110061J001)**

2. Course Period : From 26 September to 21 October, 2022

This program consists of on-demand self-directed studies, online Q&A sessions and discussions for interactive communications between lecturers and participants.

In the context of the COVID-19 pandemic, please note that there is a possibility the course period may be changed, shortened, or the course itself cancelled.

3. Target Regions or Countries

Ecuador, Ethiopia, Laos, Madagascar, Peru, South Sudan

4. Eligible / Target Organization

This program is primarily designed for department responsible for solid waste management in local or central government, or a public organization entrusted by the administrations.

5. Capacity (Upper limit of Participants)

6 participants

6. Language to be used in this program

English (including English translated from/to Japanese through interpreters)

7. Objective

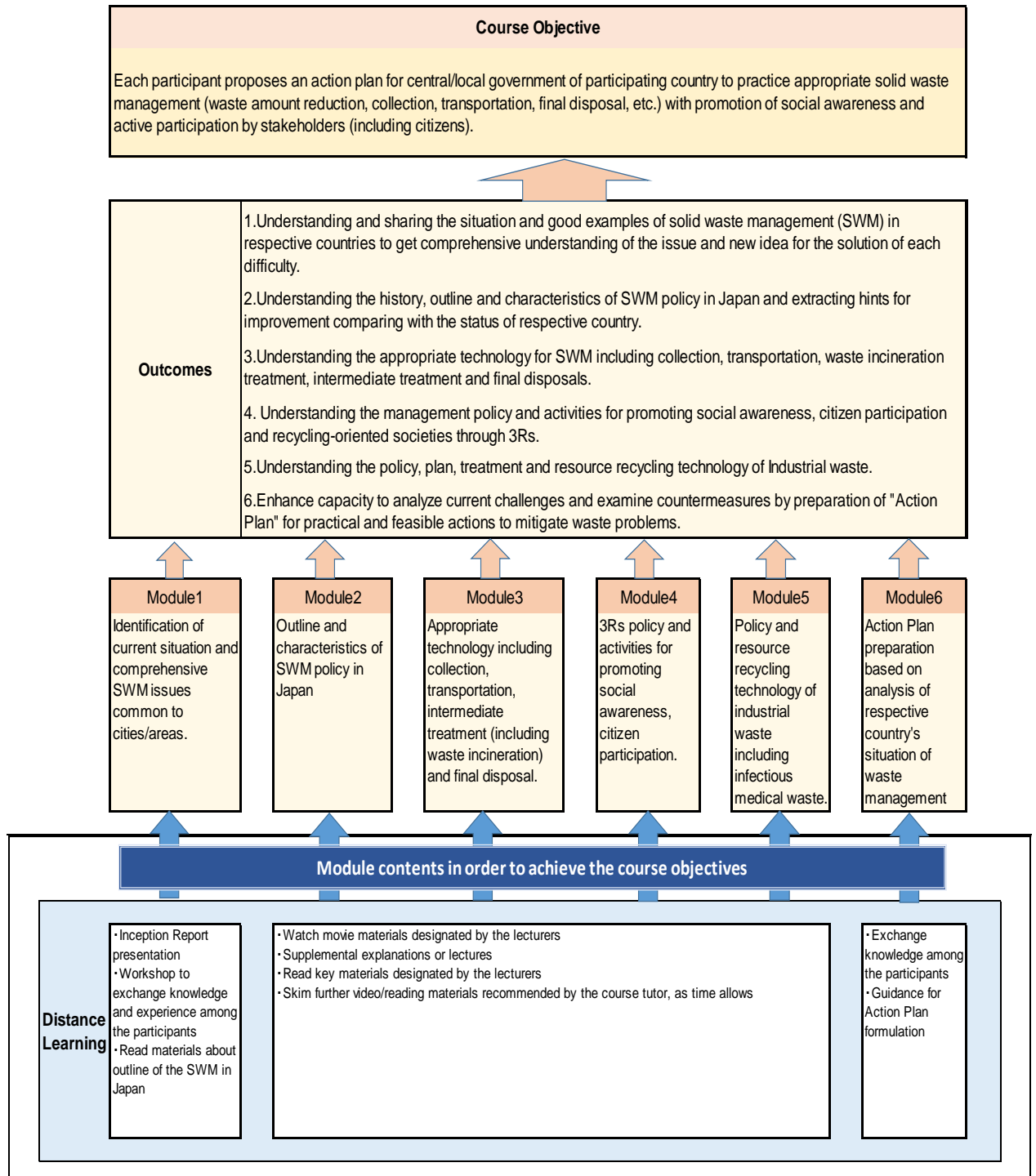
Each participant proposes an Action Plan for central/local government of participating country to practice appropriate solid waste management (waste amount reduction, collection, transportation, final disposal, etc.) with promotion of social awareness and active participation by stakeholders (including citizens).

8. Overall Goal

The improvement plan for solid waste management (Disposal and 3R) is actually implemented in the participants' respective organizations.

9. Outcomes and Contents

This course consists of the following components. Details on each component are given below. (Detailed information will be given for the accepted participants.)



Distance learning in a participant's home country

(From 26 September to 21 October, 2022)

- Read/watch materials provided in various styles of media such as an e-mail or online etc. at their own pace. (Approximately from one to three hours per a week shall be allocated. Detailed information will be given after acceptance notification.)
- Questions or answers about distance learning contents using web conference system.
- Response periodical monitoring emails from the course tutors.
- Preparation of the presentation data of each Inception Report which shall be presented on the commencement of the session.
- Consultation with participants' superior and/or colleagues what challenges/problems shall be addressed by utilizing knowledge that the participants will gain through the course (which are potential main topics for their action plan).
- Contact with an ex-participant, if possible, in the respective countries to get more idea about the course.

Expected Module Output	Subjects/Agendas	Methodology
Module1: Understanding and sharing the situation, activities and good examples of waste management in respective countries to find new ideas for improvement.	<ul style="list-style-type: none"> • Inception report presentation • Discussion among the participants 	Presentation Discussion
Module2: Understanding the history, outline and characteristics of waste management policy in Japan and finding clues for improvement of the status in respective countries.	<ul style="list-style-type: none"> • History of waste management • Cases of JICA's overseas assistance • Basic plan for waste management • Waste Flow • Organization of waste management • Legal system of waste management, etc. 	Read and watch materials Q&A session
Module3: Understanding the appropriate technology for waste management including collection, transportation, waste incineration treatment, intermediate treatment and final disposal.	<ul style="list-style-type: none"> • Plan and system of collection and transportation of municipal waste • Intermediate waste transportation facility • Waste collection • Collection vehicles • Waste incineration treatment • Intermediate treatment technology • Treatment facility for bulky waste • Resource recycling facilities • Treatment of organic waste, compost etc. 	Read and watch materials Q&A session
Module4: Understanding the management policy and activities for promoting social awareness, citizen participation and sustainable society through 3Rs.	<ul style="list-style-type: none"> • Environmental and waste education • Social awareness for the waste • Citizen participation etc. 	Read and watch materials Q&A session

Module5: Understanding the policy, plan, treatment and resource recycling technology of industrial waste including infectious medical waste.	<ul style="list-style-type: none"> • Industrial waste management • Infectious medical waste, etc. 	Read and watch materials Q&A session
Module6: Propose concrete and realistic action plan based on analysis of respective country's situation of waste management	<ul style="list-style-type: none"> • Action Plan making workshop • Action Plan presentation 	Consultation, Presentation, Discussion

III. Eligibility and Procedures

1. Expectations for the Participating Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the program to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) During the online session, applying organization should support the participant in terms that she/he can learn the course materials under appropriate self-disciplined learning environment.

2. Nominee Qualifications:

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

(1) Essential Qualifications:

- 1) Current Duties: be an administrative officer/ technical officer of a local government or related organization engaged in solid waste management including 3Rs. Officers of the central or regional government in charge of supporting local governments are qualified.
- 2) Experience in the relevant field: have more than 3 years' experience in the field of solid waste management or have equivalent level of knowledge and experiences.
- 3) Educational Background: be a graduate of university or equivalent.

- 4) Completion Requirement: Participation in both sessions (the online session and the session in Japan) is an essential requirement for the completion of the course.
- 5) Language Proficiency: have a competent command of spoken and written English proficiency equivalent to TOEFL iBT 100 or above (This workshop includes active participation in discussions, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)
- 6) Health : Participants must be in good health to participate in the program.
- 7) Distance learning environment:
 - a. can spend around one to three (1~3) hours per day for learning materials designated by the course tutors.
 - b. can contact regularly with Japanese tutor/lecturer by e-mail without serious obstacles.
 - c. can have commitment with self-discipline for studying planned learning contents and contribute to the knowledge exchanging among the participants.

(2) Recommendable Qualifications

- 1) Age: between the ages of twenty-six (26) and fifty (50) years
- 2) Gender Equality and Women's Empowerment: Women are encouraged to apply for the program. JICA makes a commitment to promote gender equality and women's empowerment, providing equal opportunity for all applicants regardless of sexual orientation and gender identity.
- 3) Internet condition at home or office favorable during distance learning period
 - A computer (or mobile device) with an internet connection with bandwidth to download documents of at least 2MB
 - Web browser (Firefox, Internet Explorer or MS Edge etc.) with cookies and JavaScript enabled.
 - Applications installed: Word processor (for Microsoft Word documents), a PDF reader (e.g. Adobe).

3. Required Documents for Application

- (1) Application Form:** The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**.
- (2) Inception Report:** each participant is required to submit an Inception Report together with Application Form. Inception Report will be used for screening of applicants, and applications without completed Inception Report will not be considered as duly qualified. Please refer to V. Annex 1 (P 11) of this General Information, and submit it with the Application Form.
- (3) English Score Sheet (photocopy):** to be submitted with the Application Form, if the nominees have any official English examination scores. (e.g., TOEFL,

TOEIC, IELTS)

- (4) **Photocopy of passport or ID:** You should submit it with the Application Form.

*The following information should be included in the photocopy:

Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date

- (5) **Internet condition questionnaire sheet:** shall be referred to prepare distance-learning materials in terms of media or methodologies suitable/available for every participating organization.

※See VII Annex3 for more detail

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at JICA Center in Japan by August 26, 2022)

(2) Selection:

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than September 9, 2022.**

5. Additional Document(s) to Be Submitted by Accepted Participants

Accepted participants are required to prepare an Inception Report (Please see 'B. Presentation of Inception Report' in V. ANNEX 1 (p.11) for details.

6. Conditions for Participation

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the program topics,
- (3) not to record or share the online contents without JICA's permission,
- (4) to comply with the use conditions of copyrighted works by each copyright holder, when using texts and other materials distributed for KCCP.

IV. Administrative Arrangements

1. Organizer(JICA Center in Japan)

(1) **Center** : JICA Kansai Center (JICA Kansai)

(2) **Program Officer:** Ms. MIWAKI Ayumi (Miwaki.Ayumi@jica.go.jp)

Logistic Officer: Mr. SHIMIZU Yoshitomo

(Shimizu.Yoshitomo3@jica.go.jp)

2. Implementing Partner

(1) **Name** : Learning and Ecological Activities Foundation for Children(LEAF)

(2) **Web site** : www.leaf.or.jp/english/etop.htm

V. Other Information

Participants who have successfully completed the program will be awarded a certificate by JICA.

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
Part II: Introduction of JICA Centers in Japan	
JICA Kansai	https://www.jica.go.jp/kansai/english/office/index.html

V. ANNEX 1

Inception Report

This Inception Report is considered to be very useful not only for adjusting the details of course items to fit for the needs of each participant but also for understanding the different situations among the participating organizations/countries.

The volume may be no more than 10 pages of slide or 1,500 words.

This Inspection Report is required to be submitted with the Application Form. Inception Report will be used for screening of applicants, and application without completed Inception Report will not be considered as dully qualified.

Required Contents in Inception Report

- (1) Name of applicant and email address
- (2) Name of your organization, department and your professional job status
 - * * Please attach an organizational chart and indicate the division which you belong to.
- (3) Detailed description of your duties
- (4) Current situation and problems/issues in your country regarding promotion of SWM. Please also describe actions or countermeasures being taken in your organization to deal with the such situation.
 - * Please describe the existing practical programs for solving said problems and cooperative relationships among citizen, administration and industry.
 - <An example of items>
 - Current situation of solid waste management
 - Legislative and administrative systems for SWM
 - Quantity and composition (Organic, plastic...) of municipal waste discharge,
 - Systems and methodologies of collection, transportation, intermediate treatment, storage, final disposal
 - Effort for 3Rs promotion (reduce, reuse and recycle) and promotion of citizen awareness/ participation
 - Collaboration with private enterprises and so on.
- (5) Subjects in the curriculum of this program that you would like to learn and you think important for your job

Inception Report Presentation (ONLY FOR ACCEPTED PARTICIPANTS)

The presentation of the Inception Report for about 15 minutes per participant will be carried out at the beginning of the program. The detail will be later informed to accepted participants.

VI. ANNEX 2

Action Plan

What is Action Plan?

During the program, all participants are required to prepare an Action Plan (AP). Participants are expected to make a presentation of Action Plan at the end of the program in Japan and also refine it in your organization after returning to your country. The purpose of its preparation is to identify a specific waste management problem and a concrete solution for it. You are recommended to focus on one topic you are able to carry out after returning to your country. Therefore, an Action Plan should be both concrete and practical. We recommend each participant to make an Action Plan by using the existing human and financial resources in each organization in the most efficient and effective way possible.

<Contents of Action Plan (Recommended)>

- a. Title
- b. Outline of (1) Target area and (2) Your office
- c. Problems and causes
- d. Stakeholders
- e. Lessons learned from the Japan's experiences
- f. Objective (Final Goal)
- g. Activities & Responsible Organizations
- h. Your own role in the Project
- i. Budget amount
- j. Schedule
- k. Others

Tips for making more implementable Action Plan

According to the JICA Institution's research report '*An Empirical Study of the Conditions for Successful Knowledge Transfer in Training Programs*' (https://www.jica.go.jp/jica-ri/publication/workingpaper/jrft3q00000025y5-att/JICA-RI_WP_No.85.pdf), more APs were observed to have been implemented in the participating organizations when;

- the organizations had identified problems to be solved and encouraged the participants to explore on it in Japan
- the participants communicated with dispatching organizations bilaterally during the course (2014, Mikami and Furukawa)

It is recommendable to consult your superior and/or colleagues about which topics you will choose for your AP before departure as well as to communicate with them while preparing your draft of AP.

Note: Participants will have more detailed guidance during the course.

VII. ANNEX 3

Questionnaire on Internet condition

Because internet condition is different from country to country, please check all you think applicable for your house, working place or other place where you will study the distance learning materials of the course.

This sheet is required to be submitted with the Application Form.

(1) Can you use a following system whenever you need to study online?

- Internet environnement ☐ Yes ☐ No
- Desktop or laptop PC ☐ Yes (OS version:) ☐ No
- Microphone ☐ Yes ☐ No
- Web Camera ☐ Yes ☐ No

(2) Have you ever attend distance-learning program?

- ☐ Yes (When: , Organizer:)
- ☐ No

(3) Do you have Google account (Gmail address)?

- ☐ Yes
- ☐ No, but I will create it if necessary
- ☐ No, and I can't create it (Reason:)

(4) Please choose an online system you have used before. (Choose all applicable)

- ☐ Zoom
- ☐ Skype
- ☐ Teams
- ☐ Google Drive
- ☐ Google Form
- ☐ Youtube
- ☐ Other ()

(5) Can you watch a video with one to two hours length through one of applicable media listed above in your PC without serious trouble?

- ☐ Yes
- ☐ Yes, and I can view more
- ☐ No (Reason: , Desirable frequency:)

(6) Do you have an email address available for communicating with the Japanese tutors?

- ☐ Yes
- ☐ No (Reason:)

(7) Any concerns or questions:

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses 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 is being customized by the different target organizations to address the specific needs, 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, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

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 a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and

technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

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.



Contact Information for Inquiries

For inquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:

JICA Kansai Center (JICA Kansai)

Address: 1-5-2, Wakinohama-kaigandori, Chuo-ku, Kobe, Hyogo 651-0073, Japan

TEL: +81-78-261-0383/0341 FAX: +81-78-261-0465