



# **【Online】**

## **Knowledge Co-Creation Program (Group & Region Focus)**

### **GENERAL INFORMATION ON**

**Technology for Solid Waste Management with  
Recycling Promotion for Sound Material-Cycle Society**  
**課題別研修「リサイクル推進による循環型社会構築に向けた  
廃棄物の適正処理技術」**  
**JFY 2022**

**Course No. 202107944J001**

**Course Period: From September 26, 2022 to December 2, 2022**

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**

Recently **Solid Waste Management** (SWM) is not only focused on the treatment of generated waste like collection, transportation and landfilling, but also other activities from view point of so called "A Sound Material Cycle Society (SMCS)".

Under the condition, this training course aims at comprehensive way for SWM, particularly technology for recycling toward SMCS. Due to Marine contamination and Global warming, waste such as plastics becomes more serious to handle those than before especially in developing countries. This means we must endeavor further toward SMCS in own countries and region. In Japan, we have been executing SMCS since 2000, the concept of 3R has widely spread. While reviewing each action, either Reduce or Reuse is rather action guideline for citizen, so to say, the matter of management on SWM. On the other hand, Recycle needs some facilities and technologies to realize its technical process.

Here Kitakyushu has the history of overcoming environmental issues through many activities. Consequently, Kitakyushu has become one of pioneering region as representing of recycling industries complex called Eco-town. Thus reflecting the regional characteristics, this course sets up aiming at comprehensive SWM with SMCS toward future a decade year in developing countries.

## **For what?**

This program is designed to improve Solid Waste Management (SWM) processes comprehensively under the concept of Sound Material Cycle Society (SMCS) for participating countries and regions. It includes not only simple work of SWM, such as collection, transportation, intermediate treatment and landfilling but also recycle based technology and practical example of SMCS carried out in Japan. Cleaner Production, one of specific items among SMCS, is contained in this course. The idea for reducing environmental burden and cost reduction through efficiency enhancement can be achieved simultaneously. Cleaner Production is widely introduced for factory rationalization as well as for waste handling work optimization.

## **For whom?**

This program is offered to engineering officers and managers in charge of waste management processes on collection, transportation, intermediate treatment and final disposal.

## **How?**

Participants will learn techniques and know-how to improve waste management processes toward Sound Material Cycle Society (SMCS), which contributes to addressing relevant issues in each country.

## ***II. Description***

**1. Title (Course No.)**

**Technology for Solid Waste Management with Recycling Promotion for Sound Material-Cycle Society (202107944J001)**

**2. Course Period**

From September 26, 2022 to December 2, 2022

**3. Target Regions or Countries**

Albania, Armenia, Azerbaijan, Bhutan, Brazil, Djibouti, Kenya, Mozambique, Pakistan, Saint Vincent and the Grenadines, Sri Lanka, Ukraine, and Zambia

**4. Eligible / Target Organization**

This program is designed for governmental organization and Non Profitable Organization (NPO) engaged in waste management.

**5. Course Capacity (Upper limit of Participants)**

13 participants

**6. Language to be used in this program: English**

All participants are requested to communicate and discuss in English without any problem so that we can share each idea and deepen understanding of the lesson. **English proficiency is indispensable for all participants.**

**7. Course Objective**

After successfully completed the course, participants shall be able to improve waste management processes toward Sound Material Cycle Society (SMCS).

**8. Expected Module Outputs and Contents:**

This program consists of the following components. The training course is composed of 4 expected Module Outputs. Participants are requested to study every Module so as to understand comprehensive SWM in Japan. Details on each component are given below:

Expected Module Output	Subjects/Agendas	Methodology
<p><b>Module 1</b></p> <p>Be able to explain the social system toward Sound Material Cycle Society (SMCS) in Japan.</p>	<ol style="list-style-type: none"> <li>1. Japan Political System and Waste Management Law</li> <li>2. Sound Material Cycle Society (Overall views and Laws &amp; regulation)</li> <li>3. Effective Waste Collection and Transport (Time &amp; Motion Study)</li> <li>4. Cleaner Production and Effective Management</li> </ol>	<p>Lecture Discussion</p>
<p><b>Module 2</b></p> <p>Be able to explain typical Solid Waste Management (SWM) carried out in Japan.</p>	<ol style="list-style-type: none"> <li>5. General Waste Management in Kitakyushu City</li> <li>6. Industrial Waste Management in Kitakyushu City</li> <li>7. Basic theory of landfill technology</li> <li>8. Virtual Video Tour of Incineration Plant and Medical Waste Treatment at Hospital</li> </ol>	<p>Lecture Discussion and Virtual tour</p>
<p><b>Module 3</b></p> <p>Be able to explain composting from organic waste and outline toward eco industry promotion in Kitakyushu</p>	<ol style="list-style-type: none"> <li>9. Home Composting from Kitchen Waste (Takakura Method)</li> <li>10. Quality Control of Compost from Different Waste</li> <li>11. Virtual Tour Video of Eco-Town in Kitakyushu</li> </ol>	<p>Lecture Discussion and Virtual tour</p>
<p><b>Module 4</b></p> <p>Be able to explain community level environmental awareness activity in Japan.</p>	<ol style="list-style-type: none"> <li>12. City Planning along with Nature Preservation</li> </ol>	<p>Lecture Discussion</p>

### 9. Preparation in a participant's home country

Applying organizations are required to submit Job Report together with the application form for selection in Japan (Annex III).

### **III. Eligibility and Procedures**

#### **1. Expectations to the Participating Organizations**

- (1) 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.
- (2) 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: Engineers or Managers direct in charge of Solid Waste Management (SWM) process such as collection, transportation, intermediate treatment and landfilling or indirect but relevant work in charge.
- 2) Experience in the relevant field: have more than 3 years of experience in the field mentioned above.
- 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 iBT 100 or more (This course contains workshop where needs active participation in discussions, which requires high competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC, etc, if possible.)
- 5) Technical Requirements:
  - a. Technology Proficiency
    - Basic computer skills such as, sending/receiving email with attachments, and using a web browser.
    - Online course is delivered using the following services, Web Conferences (Zoom), Cloud Storage (GIGAPOD), and YouTube. Online tutorial and support by JICA will be limited. The ability to be self-directed in learning new technology skills are required.
  - b. Internet Connection
    - High Speed Broadband Connection (at least 2Mbps).
    - \* Internet access charge incurred for this course shall be borne by your organization.
  - c. Hardware (Minimum Requirement)
    - Regular access to a computer, either from your home or from your

- office.
- Operating System: Windows or Mac OS (Updated version is preferred).
  - Processor: Intel Core 2 Duo or higher; 2GHz or higher
  - Memory: 4GB of RAM or higher
  - Hard Drive Space: 5GB free disk space
  - Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)
  - Others: Webcam Microphone, and Audio output Device (Speaker or Headset)
- d. Software (which may be required)
- Zoom Client for Meeting (<https://zoom.us/download>)
- \* In case you are using your office computer and use of Zoom is not authorized by your IT administrator, please notify JICA at the time of application.

## **(2) Recommendable Qualifications**

- 1) Be in relation with past or on-going JICA projects focusing on waste management.
- 2) Be familiar with engineering background.
- 3) Be familiar with PC operation, as there will be many chances for report writing and presentations.
- 4) Occupational experience of more than three (3) years in relevant field.
- 5) Age: between the ages of twenty-five (25) and forty-five (45) years
- 6) Has a clear plan or be engaged in project for recycle based industries, that is, what kinds of waste to be recycled taking into account of its feasibility for Sound Material Cycle Society (SMCS).
- 7) Has experience of working at site and understand the condition of the site.
- 8) 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. Required Documents for Application**

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

\* If you have any difficulties/disabilities, which require assistance, please specify necessary assistances in the QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION (1-(c)) of the application forms. Information will be reviewed and used for reasonable accommodation. It may allow us (people

concerned in this course) to prepare better logistics or alternatives.

**(2) Photocopy of passport or ID card:**

\*Photocopy should include the followings: Name, Date of birth, Nationality, Sex

**(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 II and III of this General Information, and submit it along with the Nomination Form. Job Report and IAS are necessary documents for screening of an applicant. The purpose of an IAS is to logically organize relationships between issues participants are facing and contents covered in the training course. The sheet is regarded as a logical statement about issue and challenging that each participant has been facing in the course of job performing. **Issues shall be written specific as well as in detail so that it can be used for discussion towards solution later on.** That is the most important point. We will share Each reply to IAS with all participants to discuss about at the opportunity of Live Meeting held on later stage, and Course leader and lecturers will give some advice through studying it.

#### **4. Procedures of 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 **July 25<sup>th</sup>, 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**

Notification of results will be made by the JICA overseas office (or the Embassy of Japan) **not later than August 25<sup>th</sup>, 2022.**

## 5. Conditions for Participation

The participants of KCCP are required

- (1) to strictly adhere to the program schedule.
- (2) to prepare the terminals used (computer, webcam, microphone and earphone) and the Internet environment to participate online program, and
- (3) to work assignments and submit them.

## 6. Online Program(Please refer to AnnexIV)

(1) This course will be conducted as a set of programs for online. The platform for online program will be conducted by “YouTube” and “Zoom”. The URL to attend the online class will be announced separately.

(2) We will provide teaching material (PDF data) to each Participant. Details will be announced at the time of notification of selection result.

(3) The length of the online program is set relatively long for the number of lectures. Please watch the lecture videos via YouTube and submit your assignment by the specified date. After watching lecture videos **and virtual tour video**, Participants are supposed to join Zoom meeting, live distribution a few times to deepen their understanding what they learned via YouTube.

(4) Please note that participant who does not watch lecture videos or submit the assignment will not be allowed to attend the live distribution Session.



## IV. Administrative Arrangements

### 1. Organizer

(1) **Name:** JICA KYUSHU (Training Program Division)

(2) **Program Officer:** Mr. MIURA Sho ([kicctp@jica.go.jp](mailto:kicctp@jica.go.jp))

(3) **URL:**(a)Introduction of JICA Kyushu

<https://www.jica.go.jp/kyushu/english/office/index.html>

(b)Introduction of Knowledge Co-Creation Program

<https://www.youtube.com/watch?v=SLurfKugrEw>

### 2. Implementing Partner

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

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

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

## V. ANNEX

- I. Training Curriculum
- II. Issue Analysis Sheet (IAS)
- III. Job Report
- IV. Tentative Schedule of Training Program (for reference)

## *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 Kyushu Center (JICA KYUSHU)**

**Address: 2-2-1 Hirano, Yahatahigashi-ku, Kitakyushu-shi,  
Fukuoka 805-8505, Japan**

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