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Online and Face-to-Face (in Japan)

Knowledge Co-Creation Program (Group and Region Focus)

# Facility Cultivation Techniques of Vegetable for Market-Oriented Value Addition, Production Stability and Increase



Course Number: 202311581J001

Course Period: September 17- December 14, 2024

Online Program Period: September 17 - October 11, 2024

Face-to-Face Program Period: October 14 - December 14, 2024

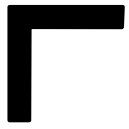


NOTE: Adobe Acrobat Reader DC and Google Chrome are recommended as PDF viewer. JAWS and NVDA are recommended as screen reader.

NOTE: If there are any difficulties in reading this document, please contact JICA Office in your country or JICA Center in Japan.

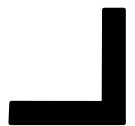
NOTE: Depending on the circumstances, some or all of the program periods may be changed or cancelled after the application has been accepted.

市場志向による付加価値及び生産安定・増加のための野菜の施設栽培技術



# How can we utilize facility cultivation to produce horticultural crops that meet market needs?

Gain insight to the adaptation of market-oriented farming methods and facility cultivation techniques to small-scale farmers.

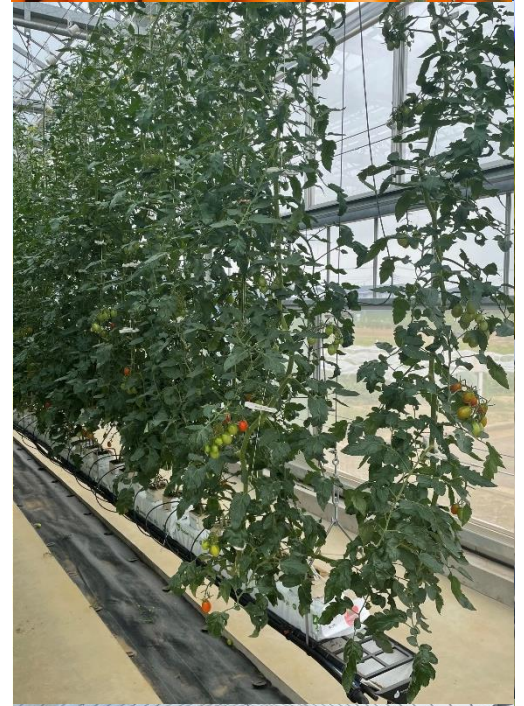




# Outline

The aim of this program is to disseminate market-oriented farming methods and facility cultivation techniques to small-scale farmers and agricultural product distributors in the participant's working area. For this purpose, this course focus on the collection of market information, improvement of farming plans based on the analysis of market information, and facility cultivation techniques to realize such improvement through lectures and practical programs at JICA Tsukuba, as well as study tours to domestic regions in Japan that can be used as references.

The sessions will be held online and in Japan. All sessions are carried out in English. The period of the program is from September 17- December 14, 2024  
Course Capacity: 12 participants



## **JICA KnowlCo-Creation JICA Knowledge Co-Creation Program (KCCP)**

The Japanese Cabinet released the Development Cooperation Charter in February 2015, stated 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 foundation of mutual learning process.

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# For What?

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## Background

In developing countries such as Southeast Asia region and elsewhere, consumer demand for food products is expanding and their needs are diversifying as the incomes of the wealthy and middle class increase in line with economic growth. Although food production in these countries is mainly carried by small-scale farmers, the current situation is not sufficiently conducive to improving the income of small-scale farmers because they do not sufficiently practice horticultural management to meet market needs (product, timing, quantity, and quality).

This KCCP program aims to promote the practice and dissemination of market-oriented facility cultivation in developing countries, and to contribute to the improvement of small-scale farmers' incomes and the development of food value chains (FVCs).

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## Objectives

To acquire the knowledge and skills necessary for participants to disseminate market-oriented farming methods and facility cultivation techniques based on the analysis of issues in each region.

## Expected outputs

1. To analyze the current situation and challenges related to facility cultivation in the country.
2. To acquire the knowledge to collect and analyze information on the market needs (product, timing, quantity, and quality) in the working area.
3. To acquire the knowledge and experience to understand the characteristics of facility cultivation and to explain them to stakeholders in the working area.
4. To acquire the knowledge to improve/modify existing farming plans based on the results of market needs analysis and utilizing the advantage of the features of facility cultivation.
5. To develop an action plan for the introduction of market-oriented facility cultivation in the working area.



# To Whom?

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## Job Areas and Organizations

Public institutions that conduct vegetable production techniques extension.

\*Officers in a position to supervise and prepare work plans of agricultural extension officers is recommended.

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## Targeted Countries

Bangladesh, Cambodia, Egypt, Ghana, India, Kyrgyz Republic, Laos, Mongolia, South Sudan and Sudan

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

# When?

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## Online Program Period



From September 17, 2024  
to October 11, 2024

All participants will be connected via Zoom to see on-demand videos and Q&A sessions.

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## Face-to-Face Program Period



From October 14, 2024(arrival)  
to December 14, 2024(departure)



# Where?

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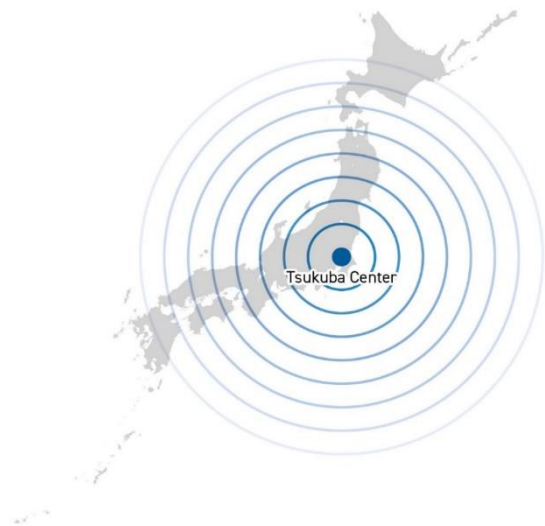
This course is carried out online first, and secondly at JICA Tsukuba Center.

## <Online Program>

You will join the Zoom sessions or video watching at your office or home. As the online lectures and Q&A sessions are going to be held to assist your learning process, you are required to have a certain IT environment. For detail, see page11.

## <Face to face program in JAPAN>

Lectures and field practice on facility cultivation and FVC, as well as visits to Japanese case studies. In this program, various 'Protected Cultivation' methods, such as mulching and tunnel cultivation, are also addressed. These techniques are aimed at stabilizing the growing environment for crops

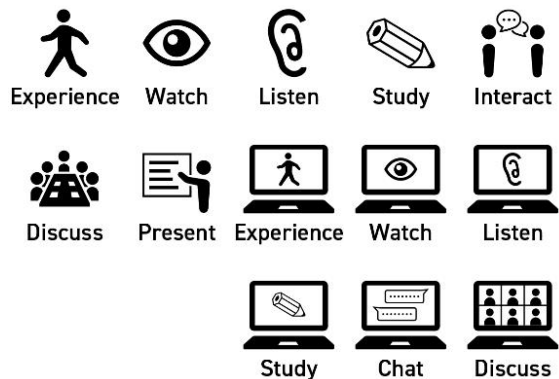




# How?

## How to Learn

- Online/on-demand Lectures
- Online Interactive Q&A Session
- Face-to-Face Lecture/ Interactive Q&A Session
- Field Visits
- Discussions
- Presentations



## Language

English

## Commitment to the SDGs



## Program Structure

### Online Program (September 17 ~ October 11)

- Pre-briefing of the course
- Interviews with local farmers and market
- On-demand Lectures about FVCs & facility cultivation
- Inception Report Preparation

### In Japan Program (October 14 ~ December 14)

- Program orientation & Course orientation
- Briefing
- Inception Report Presentation
- Lecture, Field Work, Workshop, Field Visit, Discussion
- Action plan Presentation
- Closing Ceremony
- Evaluation Meeting



# Management Members

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## Instructors (more to be confirmed)

### Course Leader

#### Mr. NAKADA Shunichi

Senior Advisor

Economic Development Department, JICA

His specialities are in Agriculture policy, rural development, food safety. He worked for Ministry of Agriculture for 25years before working for JICA.

Message: In the history of Japanese agriculture development, greenhouse cultivation have contributed significantly to improve quality of Japanese diet as well as rural economy through establishment of year-round supply system. I believe many of your country also have similar opportunity as many country is currently in the transition process from staple dependent diet to more diversified diet.



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### Course Adviser

#### Mr. NUMATA Mitsuo

Technical Advisor

Tsukuba Center, JICA

His specialities are in crop cultivation, agricultural extension and safety agricultural production such as GAP initiatives.

Message: Facility cultivation plays an important role in ensuring stable supply and producing high-quality agricultural products. It is very effective means of increasing farmers' profits, so I hope that the information provided through the training course will be very useful to local farmers.



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### Course Adviser

#### Dr. HAYASHI Hisayoshi

Technical Advisor

Tsukuba Center, JICA

His specialities are agronomy, crop production systems, higher education, practical teaching, experimental design, data analysis, and so on.

Message: The objective of this course is to learn cultivation techniques for producing high quality vegetables, especially through facility-based cultivation, and to make an action plan on how vegetable farmers in your own country can increase production, add value, and income by adopting these techniques. In addition to the training, you will also learn about Japanese food and culture. There is no one here who knows you. This is your great opportunity to change yourself. Please take many challenges in many ways.



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## Implementing Partner

### Sanyu Consultants Inc. (SCI)

SANYU CONSULTANTS INC. (SCI) was founded in 1962 as "Sanyu Consultants International Inc." following the successful completion of the Aichi Irrigation Project, the first and the largest regional agricultural water resources development project implemented in Japan after World War II.



SCI has provided consulting services both domestically and internationally. As for overseas projects, SCI provides feasibility studies, detailed design, construction supervision and operation guidance all over the world in the fields of agricultural and rural development, agricultural mechanization, agribusiness, and relevant institutional development. SCI also specialized in water resources development such as irrigation and drainage works, dam construction, water supply, disaster prevention works and climate change adaptation.

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## Program Officer

### Ms. OCHIAI Chikako

Japan International Cooperation Agency (JICA)  
Tsukuba Center

Message: In this program, we focus on facility cultivation techniques based on the market needs obtained from the Food Value Chain analysis. Let's gain a new perspective on your work through discussions with the lecturer and other participants. I look forward to meeting you!



# Eligibility and Procedures

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## 1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating 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 course to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
  - (3) As this course is designed to facilitate organizations to come up with concrete solutions for their issues, participating organizations are expected to make due preparation by carrying out the activities of the preliminary phase.
  - (4) Participating organizations are also expected to make the best use of the action plan in the respective country.
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## 2. Nominee Qualifications

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

### (1) Essential Qualifications

- 1) Current Duties: Officials of public agencies that conduct vegetable production techniques extension.  
\*Officers in a position to supervise and prepare work plans of agricultural extension officers is recommended.
- 2) Experience in the Relevant Field: have at least 5 years work experience in agricultural extension or cultivation techniques.
- 3) Educational Background: be a graduate of university or have an equivalent academic background
- 4) Language Proficiency: have a competent command of spoken and written English proficiency equivalent to TOEFL iBT 79 or above (This program

includes active participation in discussions and development of Action Plan, which require high competence in English. 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.

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. If JICA find it difficult to participate in the program for health reasons, the participants shall be returned from Japan during the program. (Annex 2)

## (2) Recommended Qualifications

- 1) Persons who are already involved (or will be involved) in JICA or other agency's related Technical Cooperation Schemes or Initiatives.





- 2) Age: between the ages of thirty (30) and forty-five (45) years
- 3) Gender Equality and Women's Empowerment: Women are encouraged to apply for the program. JICA is committed to promoting gender equality and women's empowerment, and provides equal opportunities for all applicants regardless of their sexual orientation or gender identity.

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### 3. Required Documents for Application

- (1) **Application Form:** The Application Form is available at the **JICA overseas office (or the Embassy of Japan)**
- (2) **Photocopy of Passport:** You should submit it 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.  
\*The following information should be included in the photocopy:  
Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date
- (3) **English Score Sheet:** to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)
- (4) **Questionnaire:** to be submitted with the application form. Fill in Annex of this General Information.

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### 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 **July 26, 2024.**

#### (2) Selection

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government.

Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than August 9 2024.**

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

Accepted candidates are required to make a Inception Report by joining the pre-program and implementing the farmer's interview before coming to Japan.

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## 6. Conditions for Participation

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the air ticket (and flight class and flight schedule arranged by JICA) and lodging by the participants themselves,
- (3) to understand that leaving Japan during the course period (to return to home country, etc.) is not allowed (except for programs longer than one year),
- (4) not to bring or invite any family members (except for programs longer than one year),
- (5) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Japanese Government in respect of the course,
- (6) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (7) not to engage in political activities, or any form of employment for profit,
- (8) to discontinue the program, should the participants violate the Japanese laws or JICA's regulations, or the participants commit illegal or immoral conduct, or get critical illness or serious injury and be considered unable to continue the course. The participants shall be responsible for paying any cost for treatment of the said health conditions except for the medical care stipulated in (3) of "3.Expenses", "Administrative Arrangements",
- (9) to return the total amount or a part of the expenditure for the KCCP depending on the severity of such violation, should the participants violate the laws and ordinances,
- (10) not to drive a car or motorbike, regardless of an international driving license possessed,
- (11) to observe the rules and regulations at the place of the participants' accommodation, and
- (12) to refund allowances or other benefits paid by JICA in the case of a change in schedule.

(13) to comply with the use conditions of copyrighted works by each copyright holder, when using texts and other materials distributed for KCCP. Especially, participants are strictly prohibited to record online lectures or use contents providing during the program without permissions. Participants may also sign a copyright agreement.



# Administrative Arrangements

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## 1. Organizer (JICA Center in Japan)

- (1) **Center:** JICA Tsukuba Center (JICA Tsukuba or TBIC)
  - (2) **Program Officer:** Ms. OCHIAI Chikako ( [tbicctp@jica.go.jp](mailto:tbicctp@jica.go.jp) )
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## 2. Implementing Partner

- (1) **Name:** SANYU CONSULTANTS INC.
  - (2) **URL:** <http://sanyu.tcp.jp/english/index.html>
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## 3. Travel to Japan

- (1) **Airfare:** In principle, JICA would cover a round-trip economy-class ticket between an international airport designated by JICA and Japan.
  - (2) **Travel insurance:** Coverage applies from arrival to departure in Japan. Therefore, travel time outside Japan (including baggage damaged during arrival flight in Japan) will not be covered.
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## 4. Accommodation in Japan

In principle, JICA would organize the following accommodation(s) for participants in Japan

JICA Tsukuba Center (JICA Tsukuba)  
Address: 3-6, Koyadai, Tsukuba City, Ibaraki Prefecture 305-0074, Japan  
TEL: +81-29-838-1111 FAX: +81-29-838-1119  
("81" is the country code for Japan, and "29" is the local area code).  
Please refer to the JICA Tsukuba installation guide. [tsukuba\\_guide.pdf \(jica.go.jp\)](#)

If no space is available at JICA Tsukuba, JICA would arrange alternative accommodation for participants.

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## 5. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses and stopover.
- (2) Expenses for study tours (basically in the form of train tickets).
- (3) Medical care for participants who become ill after arriving in Japan (the costs related to pre-existing illness, pregnancy, or dental treatment are not included).
- (4) Expenses for program implementation, including materials.
- (5) 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.

\*Link to JICA HP (English/French/Spanish/Russian):

[The Knowledge Co-Creation Program \(KCCP\) | Our Work | JICA](#)

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## 6. Pre-departure Orientation

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

\*YouTube videos of “Knowledge Co-Creation Program and Life in Japan” and “Introduction of JICA Center” are viewable from the link below. You can image KCCP program if you watch below.

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

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## 7. Reference



### Website: JICA

English/French/Spanish/Russian

[https://www.jica.go.jp/english/our\\_work/types\\_of\\_assistance/tech/acceptance/training/index.html](https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html)



### Website: Brochure for JICA Tsukuba Center

English

<https://www.jica.go.jp/tsukuba/english/office/others/brochure.html>

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# JICA Tsukuba

## Accommodation

JICA Tsukuba Center works as a base of this training program. The Center is equipped with accommodation facilities for JICA training participants.

For study tours taking place far from the Center, JICA will arrange hotels for the participants.



Lobby



Accommodation Bldg.



Lecture Room



PC Room



Restaurant



Gymnasium

## Climate

Tsukuba enjoys four distinctive seasons, and you are recommended to prepare adequate clothing for the season in which you will participate in the program.

### Spring

March, April, May

Max Temp: 24.2°C | Min Temp: 0.0°C

### Summer

June, July, August

Max Temp: 31.3 °C | Min Temp: 14.6°C

### Fall

September, October, November

Max Temp: 29.3°C | Min Temp: 8.3°C

### Winter

December, January, February

Max Temp: 13.6°C | Min Temp: -2.8°C

Face to face program starts in mid-October and ends in mid-December. It will be very cold, so bring appropriate clothing.

# Annex

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## ANNEX1 : Questionnaire for all candidates

### **【Remarks】**

Only accepted participants are required to prepare the Inception Report, based on the pre-program and farmer's interview.

The detail would be noticed after the notice of acceptance.

## ANNEX2 : CERTIFICATE OF HEALTH

# 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.



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.





## **Correspondence**

For enquiries and further information, please contact the JICA office or Embassy of Japan.

**Further, address correspondence to:**

### **JICA Tsukuba Center (JICA Tsukuba)**

Address: 3-6 Koyadai, Tsukuba, Ibaraki 305-0074, Japan

TEL: +81-29-838-1111 FAX: +81-29-838-1119

("81" is the country code for Japan, and "29" is the local area code)