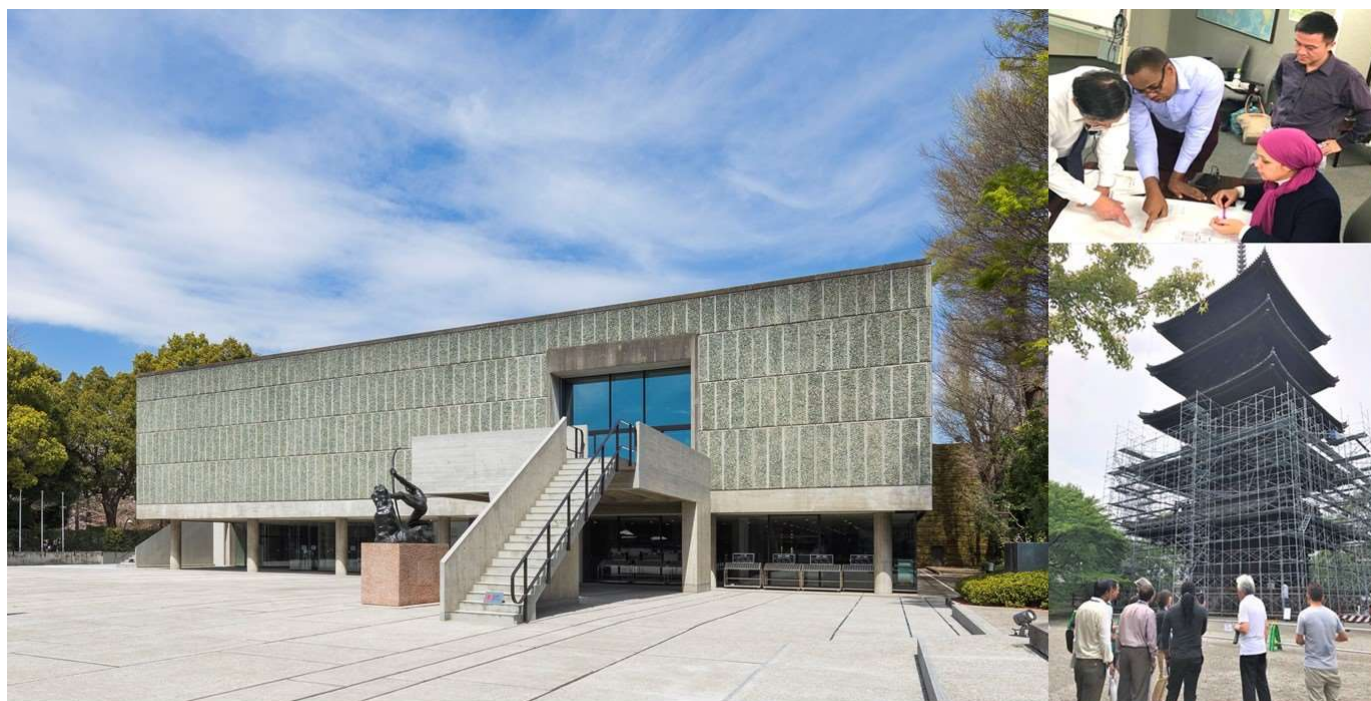




Knowledge Co-Creation Program (Group and Region Focus)

Disaster Risk Reduction of Buildings



(C)The National Museum of Western Art, Tokyo

Course Number: 202208375J001

Course Period: September 21- October 19, 2023



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.

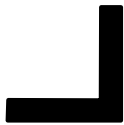
NOTE: Depending on the circumstances, some or all of the program periods may be changed or cancelled after the application has been accepted.

建築防災



How many people will be saved by our building codes?

Gain insight to an essence of building
regulation systems
more practical, more interactive,
more inspirational
from the experiences of Japan.



Outline

This program is designed for staffs of governments, governmental organizations, or other relevant organizations responsible for or interested in improvement of building codes and regulatory systems.

To improve the building disaster prevention in your own country, you will use Project Cycle Management (PCM) to identify issues related to building codes and regulatory systems. You will also learn about earthquake resistance and disaster prevention technologies.

The program will include lectures, field visit, self-study and discussion.

All sessions are carried out in English.

The period of the program is from September 21 to October 19, 2023.

Course Capacity:
11 participants



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?

Background

Recently, excessive development, climate change, population growth has increased the risk of disaster. To prevent the people from disasters, the buildings play very important roles. As past disasters show, the sturdy buildings protect people from harm, on the other hand, vulnerable buildings increase the damage. For constructing safe buildings, appropriate building codes, efficient regulatory systems, and construction knowledge are essential.

Objectives

Main Goal: To gain practical knowledge of building-related disasters and damage mitigation through capacity building in building codes, building regulatory systems, and construction technology.

Objective 1: To analyze the issues facing the participants' country using the Problem Analysis Method (PCM).

Objective 2: To understand the outline of Japanese building codes, regulatory systems, and related disaster prevention technologies.

Objective 3: To acquire ideas to solve the issues.

To Whom?

Job Areas and Organizations

This program is designed for the staffs of governments, governmental organizations, or other relevant organizations responsible for or interested in improvement of building codes and regulatory systems.

The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.

Target Countries

Cambodia, Laos, Timor-Leste, Nepal, Ecuador, Iran, Turkey, Algeria, Egypt, Nigeria, Uganda

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

When?

Program Period in Japan



From September 21, 2023
to October 19, 2023

Where?

This course is organized by JICA Tokyo Center. Programs are primarily conducted in the Tokyo metropolitan area.



How?

How to Learn

- Lectures
- Field Visit
- Workshops
- Discussions
- Presentations



Watch



Listen



Experience



Study



Chat



Discuss



Present

Language

English

Commitment to the SDGs



Program Schedule

Please note the program is subject to change without prior notification.

	Program	Contents
Week 1 Sep.22	Orientation	Program orientation
	Lecture	-Technical cooperation by JICA on earthquake disaster management
Week 2 Sep.25-29	Presentation	Country Report presentation

	Lecture	-How to formulate Action Plan -Japan's Building Regulations -Measures for Disaster Prevention and Mitigation in Japan -Earthquake and Tsunami Damage around the World and their Countermeasure -Outline of Patent Administrative Office -Post-earthquake Quick Inspection of Damaged Buildings and Seismic Evaluation
	Discussion	-Building regulations in respective countries -Problem Solving Workshop -Weekly review
Week 3 Oct.2-6	Lecture	-Composition of earthquake-resistant structural codes -Earthquake resistance and structure codes -Seismic evaluation -Safer Non-engineered Houses for Earthquake Disaster Reduction: Video Conference -Seismic Retrofitting -Outline of Architecture of National Museum of Western Art and Its Seismic Retrofitting Work -Fire Protection Measures for Buildings
	Field Visit	-Seismic Retrofitting (Seismic Isolation): National Museum of Western Art
	Discussion	-Group work on Seismic Evaluation procedures -Action Plan formulation -Weekly review

Week 4 Oct.9-13	Lecture	-Design and Construction of Steel Building Structures -Reinforced Concrete Block Construction -National Research and Development -Building Standards on Fire Safety in Japan, Research on and Measures for Fire Prevention in cities -Strong Motion and its Occurrence Mechanism -Quality Management of Buildings (RC Structure)
	Field Visit	-Manufacturing plant of Concrete Blocks - Construction of Steel Building Structures
	Discussion	-Weekly review
Week 5 Oct.16-18	Lecture	Activities of Designated Building Confirmation and Inspection Bodies and Designated Evaluation Bodies in case of BCJ (Outsourcing scheme of building regulation in Japan)
	Presentation	Action Plan presentation
		Evaluation meeting and closing ceremony

Management Members

Instructors (more to be confirmed)

Course Leader

Dr. NARAFU Tatsuo

JICA Technical Adviser

He is a former government official of MLIT and he has many years of experience in advising and evaluating technical cooperation projects in the field of architecture as a Technical Advisor of JICA. He has also served as the course leader for this course for many years.

Message: Safety of buildings is one of the most critical issues in many countries. We would like to discuss to find possible approaches suitable to social situation of each of participants' countries. Come and join the discussion with colleagues from all over the world.



Mr. TOYOHARA Hiroaki

Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

He is a government official who are familiar with Japan's building regulation system.

Message: In Japan, we have been suffering from many heavy disasters, and have struggles to develop unique regulatory system and building standards against them. We would be happy if we could share our experience with you.



Implementing Partner

The Building Center of Japan (BCJ)

BCJ has a decades-long track record in the evaluation, accreditation, and certification of building-related technologies, the verification and inspection of buildings, the certification and registration of building-related quality and environmental management systems, and dissemination of new building-related technologies through its network of related organizations and personnel, including international organizations. The Center also has many years of experience in implementing this course, and its program content, which is up-to-date, has been well received by past participants.



JICA Program Officer

Mr. KUMAGAI Hidenori

Japan International Cooperation Agency (JICA)

Infrastructure Management Department

Message: Hi everyone! You are very lucky, if you see this GI and are involved in disaster risk reduction of buildings. In FY2023, this program is planned to be conducted in Japan! We look forward to your application!!



Ms. NISHIKIMOTO Izumi

Japan International Cooperation Agency (JICA), Tokyo Center

Message: Hello everyone. In our program, you can know not only Japanese experiences but the other countries' situation of building regulation system.

Let's share your experiences with Japanese experts and participants from all over the world and get new ideas from them through active discussion.

Looking forward to receiving your application.



Eligibility and Procedures

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. 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 course 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: Officials of state or local governments, or organizations entrusted with similar tasks that address building regulatory systems and compliance issues.
- 2) Educational Background: be a graduate of university
- 3) Language Proficiency: Have sufficient command of English. (Please attach an official certificate for English ability such as TOEFL, TOEIC, etc., if possible)
- 4) Health: must be in good health to participate in the program in Japan. To reduce the risk of worsening symptoms associated with respiratory tract infection, please be honest to declare in the Medical History (QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION of the application form) if you have been a patient of following illnesses; Hypertension / Diabetes / Cardiovascular illness

/ Heart failure / Chronic respiratory illness

(2) Recommended Qualifications

- 1) Age: between the ages of twenty-five (25) 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. Required Documents for Application

- (1) **Application Form:** The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**
- (2) **Country Report:** to be submitted with the application form. Please refer to Annex 1 of this General Information.
- (3) **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.
- (4) **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. 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 Tokyo by **July 13, 2023**)

(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 July 28, 2023.**

5. Additional Document to be Submitted by Accepted Candidates

Accepted candidates are required to prepare PPT presentation on their Country Report and delivered a presentation at the beginning of the course. Please prepare PPT presentation with referring to ANNEX 2.

Submit PPT presentation to Izumi NISHIKIMOTO(Ms.) via email:

Nishikimoto.Izumi@jica.go.jp by **September 15, 2023**

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 "5. Expenses", "IV. 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.

Administrative Arrangements

1. Organizer (JICA Center in Japan)

JICA Tokyo Center (JICA TOKYO)

Program Officer: Ms. Nishikimoto Izumi (tictee@jica.go.jp)

2. Implementing Partner

1. Housing Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan (MLIT) <https://www.mlit.go.jp/en/>
 2. The Building Center of Japan (BCJ) <https://www.bcj.or.jp/en/>
-

3. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses, outfits, shipping 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):

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/accept

4. 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.

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
French ver.	https://www.youtube.com/watch?v=v2yU9ISYcTY
Spanish ver.	https://www.youtube.com/watch?v=m7l-WlQSDjl
Part II: Introduction of JICA Centers in Japan	
JICA Tokyo	https://www.jica.go.jp/tokyo/english/office/index.html

If the link of these URLs has expired, please access the URL below and search the necessary information from the key word.

<https://www.youtube.com/user/JICAChannel02>

5. Reference

PDF: KENSHU-IN GUIDEBOOK

For more detailed terms and conditions

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/c8h0vm0000011i07-att/guide_en.pdf



Video: JICA Predeparture Briefing

For more information on life in Japan and KCCP

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



Website: JICA

English/French/Spanish

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html



PDF: Facility Guide for JICA Tokyo Center

https://www.jica.go.jp/tokyo/english/office/c8h0vm0000fghcxq-att/facilities_service_guide.pdf

Annex 1

Country Report

Describe the following items to clarify the issues that your country is facing. Submit the report with your application form.

Notes:

1. Write no more than 4 pages.
2. Font should be Arial or Times New Roman, size 12.
3. Add figures, tables, and photographs so that the situation in your country can be clearly seen.

1.

Name:	
Country:	
Organization:	
Position:	
Responsibility:	

2. Outline of risks of disaster of your country (earthquake, fire, etc.).

- (1) Possible risks and prioritization among them
- (2) The heaviest damage and recent damages in your country
- (3) Future risks

* Please attach hazard map if available.

3. When someone intends to construct a building in your country, does he/she have to go through official procedures, such as building permission?

Please put Yes or No into the boxes in the table below.

Size \ Location	Urban areas	Rural areas
Buildings		
Ordinary small houses		

*If all answers are “No”, go to (5) directly.

4. What fields does the mandatory technical requirements cover?

Fields			Y (Yes) or N (No)
Building Codes	Structural stability	dead loads and live loads	
		earthquakes	
		heavy winds	
	Fire safety	Fire resistance	
		Escape	
		Firefighting equipment	
	Barrier free / universal design		
	Elevators / escalators		
Zoning Codes	Building use		
	Building height		
	Floor area ratio		
	Building coverage ratio		
	Setback from the street boundary		

5. Which organization mainly issues the building codes?

- () Central Government
() Local authorities, such as municipalities

6. Please answer the following questions regarding a building regulatory system (administration system) in the region in which your office is located.

1) Which authorities are in charge of permission/approval/inspection of each building?

* Two or more checks are acceptable.

- () Central Government, including its branch offices
() Local authorities, such as municipalities
() Organizations which are authorized by Central Government or by local authorities
() Others

2) Is it required to receive inspection by the public authority during construction?

- () No, inspection by the public authority is not required during construction.
() Yes, inspection by the public authority is required during construction.

- 3) Is it required to receive inspection by the public authority after construction work (before use of the buildings)?
- () No, inspection by the public authority is not required after construction work.
- () Yes, inspection by the public authority is required after construction work.
7. Does your country have licensing system for **architects** and **building engineers**?
- () Both licensing systems for **architects** and **building engineers**
- () Licensing system for **architects** only
- () Licensing system for **building engineers** only
- () No license system for **architects** nor **building engineers**
- () Others
8. Regarding buildings in your country, briefly describe popular construction methods (brick masonry, reinforced concrete, steel, etc.) for
- 1) houses of low-income and middle-income people
- 2) buildings of the 4-6 story range
- 3) buildings of 20 stories and over
9. What kind of issues does your country face regarding building codes and building regulatory system, such as buildings without building permission, non-compliant designs, poor quality of materials, quality controls of construction work or others?

Annex 2

For Accepted Applicants Only

Country Report Presentation

All participants are required to deliver a 10-15 minute presentation on your country report at the beginning of the course.

Please prepare PPT presentation with including following contents.

Usage of visual material (videos and pictures) is highly recommended.

Please submit PPT presentation to Izumi NISHIKIMOTO(Ms.) via email:

Nishikimoto.Izumi@jica.go.jp by **September 15, 2023**

1. Self-introduction

- (1) Affiliation, Title and Role (Name of organization, your position, your responsibilities etc.)
- (2) Organization Chart

2. Outline of your country

- (1) Location, total area, and population
- (2) Other characteristics

3. Outline of risks of disaster of your country (earthquake, fire, etc.).

- (1) Possible risks and prioritization among them
- (2) The heaviest damage and recent damages in your country
- (3) Future risks

* Please attach hazard map if available.

4. Outline of the buildings in your country

- (1) Popular construction methods for houses of low-income and middle-income people
- (2) Popular construction methods for buildings in the 4-6 story range
- (3) Popular construction methods for buildings of 20 stories and over
- (4) Other characteristics

5. What kind of issues does your country face regarding building codes and building regulatory system, such as buildings without building permission, non-compliant designs, poor quality of materials, quality controls of construction work or others?

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 Tokyo Center (JICA Tokyo)

Address: 2-49-5, Nishihara, Shibuya-ku, Tokyo 151-0066, Japan

TEL: +81-3-3485-7051 FAX: +81-3-3485-7904

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