



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

GENERAL INFORMATION ON

DISASTER RISK REDUCTION ON INFRASTRUCTURE (RIVER, ROAD AND PORT)

課題別研修「インフラ(河川・道路・港湾)における災害対策」 JFY 2020

Course No. 201902303J001

Online Program Period: From January 12th, 2021 to February 12th, 2021

**Observation Program Period(in Japan): From May 23rd, 2021 to June
12th, 2021**

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

This information pertains to one of the JICA Knowledge Co-Creation Programs (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)

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.

I. Concept

Background

In recent years, natural disasters which could shake the foundations of regions and nations are occurring more frequently and intensely all over the world. As a result, economic damage and loss are expanding. In developing countries, natural disasters such as flood, earthquake, tsunami, sediment related disasters have caused serious damages to public infrastructure (road, river, port, water supply and sewerage system, electric power supply, etc.) and recovering such public infrastructure requires a great deal of reinvestment and time. In this way, it repeatedly impedes social and economic development.

In 2005, “Hyogo Framework for Action 2005-2015(HFA)” was adopted at the Second UN World Conference on Disaster Reduction held in Kobe, the stricken area of the Great Hanshin-Awaji Earthquake. The HFA emphasized the strategic objectives to introduce risk reduction methods for emergency response and restoration/reconstruction by strengthening the earthquake resistance of important public facilities and infrastructure.

In 2015, “The Sendai Framework for Disaster Risk Reduction 2015-2030” was adopted at the Third UN World Conference in Sendai, Japan. It emphasizes that not only restoring the social functions as before but also overcoming the previous vulnerability so the society can become more resilient against the similar disasters that may occur in the future, i.e. making a disaster as a critical opportunity to “Build Back Better” .

The Sustainable Development Goals (SDGs) adopted at the United Nations Conference in 2015 also sets the target “Building a resilient infrastructure (Goal 9)”.

Japan has suffered from severe natural disasters, learned from the past and dealt with the disaster risk reduction both on “hardware” and “software” such as development of legal and administrative systems, putting disaster risk prevention and reduction measures in infrastructure development, researching and developing on the occurrence and forecasting of the disasters. As one of the pillars of international cooperation, Japan has a huge responsibility to transfer the knowledge and technology to developing countries.

This program “Disaster Management on Infrastructure (River, Road and Port)” is designed for civil engineers who are in charge of the maintenance and management of the public engineering facilities in developing countries. The program aims to share the various efforts such as the way to reduce the damage on important public infrastructures from natural disasters (flood, earthquake, tsunami and sediment related disasters) and disaster recovery based on the Japan’s experiences, leading to the improved disaster risk prevention, mitigation and restoration for infrastructure in participating organizations.

Sustainable Development Goals (SDGs)

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



For what?

This program aims to provide knowledge and applicable techniques for more practical, efficient and effective disaster risk reduction, prevention, mitigation, preparedness and rehabilitation on infrastructure (river, road and port).

For whom?

This program is offered to CIVIL ENGINEERS who are involved in infrastructure management (river, road and port, but not for building and housing), from the viewpoint of investigation, planning, implementation or maintenance.

How?

- 1) Online program; From January 12th, 2021 to February 12th, 2021, participants shall have opportunities to obtain and expand their knowledge on disaster risk prevention systems, rehabilitation systems and special engineering methods for infrastructure that are implemented in Japan, **through online self-study**. Participants are going to formulate a final report on this online program. Basically each lecture (video) is going to be uploaded as online study material but participants may have interactive sessions as well.
- 2) Observation program in Japan; From May 23rd, 2021 to June 12th, 2021, participants shall formulate an Action Plan by observations and field visits in Japan while referring to the final report formulated at online program.

II. Description

1. Title (Course No.): Disaster Risk Reduction on Infrastructure (River, Road and Port) (201902303J001)

2. Course Period

(1) 1st part; Online Program:

From January 12th, 2021 to February 12th, 2021

(2) 2nd part; Observation Program in Japan

From May 23rd, 2021 to June 12th, 2021

<Important Note>

In the context of the COVID-19 pandemic, please note that there is a possibility the course period, especially the 2nd part in Japan, may be changed, shortened, or the course itself would be cancelled.

3. Target Regions or Countries

Indonesia, Malaysia, Timor - Leste, Brazil, Chile, Guyana, Iraq

4. Eligible / Target Organizations and Participants

(1) Target Organizations:

This program is designed for governmental organizations in charge of disaster risk prevention and rehabilitation for infrastructure (road, river and port).

The kinds of disasters dealt with in the program are limited to natural disasters, such as flood, earthquake, tsunami and sediment related disasters which can damage infrastructures in a short period of time. Please note neither drought, wildfire nor extreme temperature is dealt with in this program.

(2) Target Participants

Target participants of this program are Civil Engineers who are involved in infrastructure management (except for building and housing), especially taking charge of a river, road or port (from the viewpoint of investigation, planning, implementation or maintenance). As for some essential qualifications for nominees, please see section III-2.

5. Course Capacity (Upper limit of Participants)

7 participants

6. Language to be used in this program

English or Japanese with English interpretation

7. Course Objective:

1st part Online Program; Participants will acquire knowledge on applicable techniques for more practical, efficient and effective disaster risk prevention, mitigation, preparedness and rehabilitation for infrastructure (river, road and port), and formulate a final report.

2nd part Observation Program in Japan; Participants shall formulate an Action Plan by observations and field visits in Japan while referring to your final report.

Action Plan is to describe what the participants will do after going back to home country based on the knowledge and ideas acquired through this program.

8. Overall Goal

Disaster risk prevention, mitigation, preparedness and rehabilitation for infrastructure (river, road and port) will be improved in participating organizations.

9. Expected Module Output and Contents:

This program consists of the following components. Details on each component are given below (Note: subject to change):

<p>(1) Preliminary Phase before Online Self-Study Program starts (to January 11th, 2021) <i>Participating organizations are required to make preparation for the program in the respective countries.</i></p>		
Activities	Preparation and submission of Job Report and Basic Information Matrix (As for the details, please see ANNEX)	
<p>(2) Core Phase of Online Self-Study Program *Participants may have online interactive sessions (From January 12th, 2021 to February 12th, 2021)</p>		
Expected Module Output	Subjects/Agendas	Methodology
<p><A> To understand the similarities and differences of the feature of natural disasters between the participating countries and Japan.</p>	<p>(1) Job report sharing (2) Natural disasters in Japan, Natural disasters and its analysis in each country (3) Transition of disaster risk reduction technologies in Japan</p>	<p><Online Self-Study> •Viewing of Pre-Recorded Lecture Video. •Web-based Q&A Consultation.</p>
<p> To understand the national and prefectural governmental policies, plans and measures on Disaster Risk Reduction (DRR) in Japan.</p>	<p>(1) Disaster management policies/plans/measures at different levels (2) Earthquake disaster prevention, mitigation and restoration of lifeline systems (3) Disaster assessment</p>	<p><Online Self-Study> •Viewing of Pre-Recorded Lecture Video. •Web-based Q&A Consultation.</p>
<p><C> To understand non-structural measures on Disaster Risk Reduction (DRR) such as weather forecast, early warning system, information sharing system, etc.</p>	<p>(1) Response to disasters by Meteoroidal Observatory(weather forecast/earthquake) (2) Flood forecasting system and its operation (3)Creation of Disaster Reduction Awareness</p>	<p><Online Self-Study> •Viewing of Pre-Recorded Lecture Video. •Web-based Q&A Consultation.</p>

<p><D> To understand structural measures such as the engineering techniques for disaster risk prevention, mitigation, preparedness and rehabilitation for infrastructures against various natural disasters in Japan.</p>	<p>(1) River improvement (River & Dam) (2) “Sabo” (Erosion and Sediment Control) works (3) Road works (4) Port facilities (5) Emergency Restoration Works</p>	<p><Online Self-Study> •Viewing of Pre-Recorded Lecture Video. •Web-based Q&A Consultation.</p>
<p><E> To prepare a final report and propose applicable techniques / knowledge to participating organizations.</p>	<p>(1)Preparation of Final Report (2) Sharing of Final Report</p>	<p>•Web-based Consultation. •Web-based presentation sharing.</p>
<p>(3) Observation Program in Japan (May 23rd, 2021 to June 12th, 2021)</p>		
<p>Participants shall formulate an Action Plan by observations and field visits in Japan while referring to your final report. <Field visit sites>: Landslide Countermeasures Project, Sabo/check Dam, Bridges, Underground Rivers and Regulating Reservoirs, Port Facilities and so forth. *Subject to change * In the context of the COVID-19 pandemic, please note that there is still a possibility the course period in Japan will be changed, shortened, or the course itself will be cancelled.</p>		
<p>(4) Finalization Phase in a participant’s home country (from June 13th, 2021)</p>		
<p>Expected Module Output</p>	<p>Activities</p>	
<p>To implement the Action Plan</p>	<p>Dissemination, finalization and implementation of the Action plan in the participant’s country</p>	

- During Online Self-Study Program from January 12th,2021 to February 12th, 2021, you are supposed to:
 - take approximately 20 online lectures (30-45 minutes/each) and,
 - write 4-5 short reports and Final Report

During this program, you are responsible for time management. Please make sure that you discuss this with your supervisor in your organization, so that you have enough time to focus on your course work.

III. Eligibility and Procedures

1. Expectations for 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 utilize the program 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 program to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.

2. Nominee Qualifications:

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

(1) Essential Qualifications

1) Current Duties & Experience in the relevant field:

Civil engineers of central or local government with at least 5 years of experience in infrastructure management (except for building / housing).

2) Educational Background:

University graduates or equivalent in the area of civil engineering.

3) English Language Qualification:

Language: have a competent command of English which is equal to TOEFL iBT 80 or more (This training program includes 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.)

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 if you have been a patient of following illnesses; Hypertension / Diabetes / Cardiovascular illness / Heart failure / Chronic respiratory illness.

5) Technical Requirements for the Online Program (Computer)

Technology Proficiency:

-Basic computer skills such as, sending/receiving e-mail with attachments, and using a web browser.

-Online program will be delivered using the following services, Web Conferences (Ex. Zoom, Webex, Google Meets, MS Teams), Cloud Storage (Ex. Google Drive, 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.)

Internet Connection:

- High Speed Broadband Connection (at least 2Mbps) from your office or your home.

*In principle internet access charge incurred for this course shall be borne by you/your organization.

<Minimum Requirement>

Hardware:

- 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 i3 or equivalent; 2GHs or higher
- Memory: 2GB of RAM or higher
- Hard Drive Space: 2GB free disk space
- Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)

*In some cases, Smartphone (Android OS or Apple iOS) can be used as substitute of PC.

Hardware and Software which may be required:

- Webcam Microphone, and Audio output Device (Speaker or Headset)
- Zoom Client for Meeting (<https://zoom.us/download>)
- Webex

6) Attendance Requirement:

Participation in both online and in-Japan program is an essential requirement for the completion of the course.

(2) Recommendable Qualifications

- 1) Age: Applicants are recommended between **25 - 45** years old.
- 2) Gender Consideration: JICA is promoting gender equality. Women are encouraged to apply for the program.

3. Required Documents for Application:

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

* If you have any difficulties/disabilities which require assistance, please specify necessary assistances in the Medical History (1-(d)) of the application forms. It may allow us (people concerned in this course) to prepare better logistics and/or alternatives.

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

*Photocopy should include the followings:

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

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

4. Procedures for Application and Selection :

(1) Submission of the Application Documents:

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

(After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Center in JAPAN by December 4th, 2020**)

(2) Selection:

Primary screening is conducted at JICA 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 office (or the Embassy of Japan) **not later than December 11th, 2020**.

5. Document to be submitted by accepted participants:

Accepted participants should submit "Basic Information Matrix" and "Job Report" by e-mail by **December 23rd, 2020**. As for details, please see ANNEX.

6. Conditions for participation:

Participants of KCCP required

(1) to strictly observe the course schedule.

(2) not to change the program topics.

(3) not to record or share the online contents/URL without JICA's permission.

(4) not to bring or invite any family members (except for programs longer than one year).

(5) to abide with the flight schedule arranged by JICA.

(6) 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.

- (7)** to observe the rules and regulations of the program implementing partners or establishments with which the participants undertake study or training.
- (8)** to refrain from engaging in political activities, or any form of employment for profit or gain.
- (9)** to discontinue the course, in case of serious illness or injury, and when JICA will determine that you are unable to further participate the course. You shall be responsible for paying any cost for treatment of said health conditions except for the medical care stipulated in (3) of “5. Expenses”, “IV Administrative Arrangements”.
- (10)** to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the course expenditure depending on the severity of said violation.
- (11)** to discontinue the course, should you commit illegal or immoral conduct.
- (12)** not to drive a car or motorbike, regardless of an international driving license you may possess.
- (13)** to observe the rules and regulations at the place of your accommodation and not to change the accommodation designated by JICA.
- (14)** to comply with the use conditions of copyrighted works by each copyright holder, when using textbooks and other materials distributed for KCCP.
- (15)** to refund the allowances or other benefits paid by JICA in the case of a schedule change.

IV. Administrative Arrangements

1. Organizer:

(1) **Name:** JICA Kansai

(2) **Contact:** Ms. Ayaka UDA (Uda.Ayaka.2@jica.go.jp) and Ms. Nozomi YOSHIDA (Yoshida.Nozomi@jica.go.jp)

2. Implementing Partner:

Name: Ministry of Land, Infrastructure, Transportation and Tourism, Kinki Regional Development Bureau

URL: <http://www.kkr.mlit.go.jp/index.html> (Japanese)

3. Travel to Japan

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

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

4. Accommodation in Japan

Basically, JICA will arrange the following accommodation(s) for the participants in Japan:

JICA Kansai
Address: 1-5-2, Wakinohama-kaigandori, Chuo-ku, Kobe, Hyogo
651-0073, Japan
TEL: 81-78-261-0341/0388 FAX: 81-78-261-0465
(where “81” is the country code for Japan, and “78” is the local area code)

If there is no vacancy at [JICA Kansai](https://www.jica.go.jp/kansai/english/office/index.html), JICA will arrange alternative accommodations for the participants. Please refer to facility guide of JICA Kansai at its URL, <https://www.jica.go.jp/kansai/english/office/index.html>

5. Expenses

The following expenses will be provided by JICA

(1) Allowances for meals, living expenses, outfit, and 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/acceptance/training/index.html

6. Pre-departure Orientation

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy). JICA pre-departure briefing video is viewable from the link below.

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=m7I-WIQSDjI
Russian ver.	https://www.youtube.com/watch?v=P7_ujz37AQc
Arabic ver.	https://www.youtube.com/watch?v=1iBQqdpXQb4
Part II: Introduction of JICA Centers in Japan	
JICA Kansai	https://www.jica.go.jp/kansai/english/office/index.html

V. Other Information

1. Participants who have successfully completed both programs (online program and observation program in Japan) will be awarded a certificate by JICA.

(Observation program in Japan)

2. For the promotion of mutual friendship, JICA Kansai encourages international exchange between JICA participants and local communities, including school and university students as a part of development education program. JICA participants are expected to contribute by attending such activities and will possibly be asked to make presentations on the society, economy and culture of their home country.
3. Participants are highly recommended to bring laptop computers for your convenience. During the program, participants are required to work on the computers, including preparation of Action Plans, etc. Most of the accommodations have internet access. Also, there is a computer room in JICA Kansai where 6 desk-top computers are available with internet access.
4. Participants are requested to bring athletic shoes and backpack (or small suitcase). Athletic shoes are necessary for field visit and backpack (or small suitcase) is necessary when you go out for a short trip to other cities. (so that you don't need to bring everything)
5. Allowances, such as for living, outfit, and shipping, will be deposited to your temporary bank account (opened by JICA) 2 to 5 days after your arrival in Japan. It is highly advised to bring some cash in order to cover necessary expense for this period.
6. It is very important that some of your currency must be exchanged to Japanese Yen at any transit airport or Kansai International Airport (KIX) in Osaka, Japan soon after your arrival. It is quite difficult to exchange money after that, due to limited availability of facility or time during the program.

ANNEX:

NECESSARY CONTENTS OF BASIC INFORMATION MATRIX & JOB REPORT (Only for accepted participants)

Accepted participants are required to submit <A> and by December 23rd, 2020 to Uda.Ayaka.2@jica.go.jp (Ms. Ayaka UDA)

< A > Basic Information Matrix

The Basic Information Matrix aims to sum up basic information about disasters and share them with other participants and instructors. The Basic Information Matrix is divided into two parts. The first section is asking some data on disaster for Infrastructure. The second section is the information related to assistance by Development Partners. It would be desirable that each participant fills out this part in cooperation with respective country's JICA office. (Please use the format on next page)

< B > Job Report

(a) Style

- Job report should be prepared by Microsoft® Power Point or Word.
- Job report should cover the following five elements.
 1. The missions of participants' organization and his/her own duty
 2. Natural disasters which typically occur in participant's country, and that have occurred in recent years
 3. Experience(s) of natural disaster management in participant's duties
 4. Problems and issues at participant's organization that need to be solved or improved from a perspective of "disaster risk reduction on infrastructures (river, road and port). Please describe them along the following angles;
 - Disaster mitigation
 - Restoration from natural disasters
 - Maintenance and management
 - Disaster risk reduction measures
 - Others
 5. Objectives to participate in this program
- Please use some tables, figures and pictures for better understanding of other participants and lecturers (e.g. pictures about situation of damage by disasters and so on).
- The report should be about 10 slides (Power Point) or less than 4 sheets (Word).

(b) Language : English

Basic Information Matrix

【1】インフラ施設の自然災害に関する情報 Information on Disaster for Public Works		
1-1-1 主な地理・地質条件 Geographic & Geological conditions		
1-1-2 気候区分、年間降水量、時間最大降雨量 Climatic Division, Annual Rainfall, Peak Rainfall per 1 hour	気候区分 Climatic Division	
	年間降水量 Annual Rainfall	
	時間最大降雨量 Peak Rainfall per 1 hour	
1-1-3-(a) 水文観測の統計データの有無（雨量、水位、潮位について） Existence of Hydrological Observation Statistical Data (Please select "✓" if the observation is carried out, or "X" if not.)	雨量 Rainfall	
	水位 Water Level	
	潮位 Tide Level	
1-1-3-(b) 水文観測機関からインフラ担当機関への情報共有の有無 Existence of sharing information system from the hydrological observation to the organization in charge of infrastructure (Please select "✓" if such system exists, or "X" if not)		
1-1-3-(c) 水文観測機関から市民への気象警報情報、災害情報（地震、津波、土砂崩れ・洪水・火山など）の情報共有の有無 Existence of disaster related information sharing system from the hydrological observation to citizens. (Disaster related information : Weather warning information and information regards to natural disasters such as earthquake, tidal wave, tsunami, landslide, flood, volcanic activity, etc.) (Please select "✓" if the system is existed, or "X" if not)	気象警報情報 Weather warning information	
	災害情報 Disaster related information	
	Earthquake	
	Tidal wave	
	Tsunami	
	Landslide	
	Flood	
Volcanic Activity		
Others		
1-1-4-(a) 国全体でよく起きる自然災害と過去の被害状況 Please indicate most typical disasters in your country and the situation in the past.		
1-1-4-(b) 過去の被害状況についての統計データの有無 Existence of record/statistical data of the past natural disasters. (Please select "✓" if such record/data exists, or "X" if not)		
1-1-5 上記1-1-4-(a)の災害において、政府や所属先が優先順位をもって対処すべきと考えている自然災害 Disasters which your organization and government try to tackle with high priority. (Please choose disasters within the above answers (1-1-4-(a)))		

<p>1-1-6 上記1-1-5に対しての現行の対応策（長期計画や当面の整備計画など）及び現在、実施しているハード対策・ソフト施策 Please indicate some countermeasures plan such as long-term plan, maintenance plan, etc., and some hard/soft countermeasures which currently your organization are implementing against the natural disasters which are mentioned in the above question 1-1-5.</p>		
<p>1-1-7 上記1-1-6を行ううえでの課題と必要と思われる政策や技術など Please indicate challenges and policies/technologies which are required to implement 1-1-6.</p>		
<p>1-2-1 上記1-1-4及び1-1-5に関して、災害復旧に関する法律・制度等はあるか Existence of Law(s) and/or System(s) about Disaster Restoration related to 1-1-4 and 1-1-5. (Please select "✓" if such law(s) and/or system(s) exist for the following infrastructure, or "X" if not)</p>	道路 Road	
	河川 River	
	港湾 Port	
	その他 others	
<p>1-2-2 災害復旧工法としての設計基準 Design basis and standards that prescribes post-disaster construction methods (Please describe outline of them on the each box if such design basis exists)</p>	道路 Road	
	河川 River	
	港湾 Port	
	その他 others	
<p>1-3-1 災害に関するソフト対策（ハザードマップ、水位計、早期警報システム等） "intangible" system(s) against disasters(e.g. a hazard map to show prediction of damages by disasters, water level gauge and early warning system etc.)</p>		
<p>1-3-2 自組織における、自らが担当するインフラ施設の、過去の災害を教訓とした維持管理マニュアルの有無 Maintenance manual which is based on the lesson learned from the past disasters in your organization. (Please describe outline of them if such maintenance manual exists)</p>		
<p>1-4 日本において学びたい技術（ハード整備・ソフト施策） Technologies and countermeasures (hard/soft) which you want to learn in Japan.</p>		

【2】外国からの支援に関する情報
Assistance by Development Partners (donors)

<p>2-1 本研修に関連のある主な日本支援によるプロジェクト (過去、現在、予定) Past, Present and Future Projects related to this course supported by Japan</p>	
<p>2-2 その他の外国からの支援 Project or Assistance by other donors/countries</p>	

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner (developing) countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to developing 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 developing 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 a Training Program, and it is one of the core programs carried out in Japan. By inviting officials from developing 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 programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs 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 the 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, 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 developing countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems in developing countries.

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.



CORRESPONDENCE

For enquiries and further information, please contact the JICA office or 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: +81-78-261-0386, +81-78-261-0341 FAX: +81-78-261-0465