



Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

DISASTER MANAGEMENT ON INFRASTRUCTURE (RIVER, ROAD AND PORT)(B)

課題別研修「インフラ(河川・道路・港湾)における災害対策(B)」
JFY 2018

NO. J1804318 / ID. 1884491

Course Period in Japan: From November 5th, 2018 to December 19th, 2018

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 (KCC) Program' as a New Start

In the Development Cooperation Charter which was released from the Japanese Cabinet in 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

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 (water supply and sewerage system, electric power supply, road, river, port, 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 under the Goal 11 "By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations."

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)(B)” 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.

For what?

This program aims to provide knowledge and applicable techniques for more practical, efficient and effective disaster risk 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?

Participants shall have opportunities in Japan 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 lectures, observations, and field visits. Participants will also formulate an Action Plan describing what the participants will do after going back to home country by utilizing the knowledge and ideas acquired in Japan.

II. Description

1. Title (J-No.): Disaster Management on Infrastructure (River, Road and Port)(B) (J1804318)

2. Course Period in JAPAN
From November 5th, 2018 to December 19th, 2018

3. Target Regions or Countries
Iran, Democratic Republic of the Congo, Georgia, Tajikistan, Turkey, Nepal, Peru, Mexico, Moldova, Morocco

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)
10 participants

6. Language to be used in this program
English or Japanese with English interpretation

7. Course Objective:
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 Action Plans for their organizations.

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:

given below:

(1) Preliminary Phase in a participant's home country <i>Participating organizations are required to make preparation for the program in the respective countries.</i>		
Expected Module Output	Activities	
Job report and Basic Information Matrix are prepared.	Preparation and submission of Job Report and Basic Information Matrix (As for the details, please see the ANNEX 1.)	
(2) Core Phase in Japan (From November 5th to December 19th, 2018) <i>Participants will attend the Program implemented in Japan.</i>		
Expected Module Output	Subjects/Agendas	Methodology
<A> To understand the similarities and differences of the feature of natural disasters between the participating countries and Japan.	(1) Job report presentation (2) Natural disasters in Japan, Natural disasters and its analysis in each country	Lecture Field visit Presentation
 To understand the national, prefectural and municipal governmental policies, plans and measures on Disaster Risk Reduction (DRR) in Japan.	(1) Disaster management policies/plans/measures at different levels (2) Disaster management project (Land readjustment, urban redevelopment, etc.)	Lecture and Field visit
<C> To understand non-structural measures on Disaster Risk Reduction (DRR) such as weather forecast, early warning system, information sharing system, etc.	(1) Response to disasters by Meteoroidal Observatory(weather forecast/earthquake) (2) Flood forecasting system and its operation (3)Creation of Disaster Reduction Awareness (Town watching and Hazard Map developing)	Lecture Field visit Workshop

<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)</p> <p>(2) “Sabo” (Erosion and Sediment Control) works</p> <p>(3) Road works (Road and Bridge)</p> <p>(4) Sea coast and Port</p> <p>(5) Quake-resistance</p> <p>(6) Visiting disaster restoration site (Landslide, flood, tsunami, etc.)</p>	<p>Lecture and Field visit</p>
<p><E> To prepare an Action Plan and propose applicable techniques / knowledge to participating organizations.</p>	<p>(1) Problem analysis, solution finding</p> <p>(2) Preparation of Action Plan</p> <p>(3) Presentation of Action plan</p>	<p>Workshop Consultation Presentation</p>
<p>(3) Finalization Phase in a participant's home country (from December 19th, 2018)</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>	

III. Conditions and Procedures for Application

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) Educational Background:

University graduates or equivalent in the area of civil engineering.

2) 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).

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, 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.

(2) Recommendable Qualifications

- 1) Age: Applicants are recommended between **25 - 45** years old.

3. Required Documents for Application:

- (1) Application Form:** The Application Form is available at **the JICA office (or the Embassy of Japan)**.
- (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 **September 14th, 2018**)

(2) Selection:

After receiving the documents through proper channels from your government, the JICA office (or the embassy of Japan) will conduct screenings, and then forward the documents to the JICA Center in Japan. Selection will be made by the JICA Center in consultation with concerned organizations in Japan. *The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.* Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.

(3) Notice of Acceptance:

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than October 5th, 2018.**

5. Documents to be submitted by accepted participants:

(1) Basic Information Matrix:

Please submit Basic Information Matrix by e-mail by **October 26th, 2018**.

As for the detail, please see ANNEX 1.

(2) Job Report Presentation:

Job Report Presentation should be submitted **on the first day of the program in Japan**. As for the detail, please see ANNEX 1.

6. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) 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 program expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

IV. Administrative Arrangements

1. Organizer:

(1) **Name:** JICA Kansai

(2) **Contact:** Ms. Ayaka UDA (Uda.Ayaka.2@jica.go.jp and jicaksic-unit@jica.go.jp)

2. Implementing Partner:

(1) **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 a 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 will not be covered.

4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Kansai Center (JICA Kansai)

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

TEL: 81-78-261-0386 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, 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 for the participants by JICA:

(1) Allowances for accommodation, meals, living expenses, outfit, and shipping,

(2) Expenses for study tours (basically in the form of train tickets),

(3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, and dental treatment are not included), and

(4) Expenses for program implementation, including materials.

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.

6. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country’s JICA office (or Embassy of Japan), to provide participants with details on travel to Japan,

conditions of the participation in the program, and other matters.

V. Other Information

1. Participants who have successfully completed the program will be awarded a certificate by JICA.
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 accommodation, living, clothing, 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 1:

NECESSARY CONTENTS OF THE BASIC INFORMATION MATRIX & JOB REPORT

(Only for accepted participants)

< A > Basic Information Matrix (Accepted participants are required to submit by October 26th, 2018 to Uda.Ayaka.2@jica.go.jp (Ms. Ayaka UDA))

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 (Accepted participants are required to make a Job Report presentation at the beginning of program. So, please prepare and submit it after your arrival in Japan.)

(a) Style

- Presentation should be prepared by Microsoft® Power Point.
- Presentation should cover the following four elements.
 1. The missions of participants' organization and his/her own duty
 2. Natural disasters typically occur in participant's country, and that have occurred in recent years
 3. Experience(s) of natural disaster management in your duties
 4. Problems and issues of participant's organization that need to be solved or improved from a perspective of "Disaster Mitigation and Restoration for Infrastructure" and his/her own objectives to participate in this program
- Please use some tables, figures and pictures to facilitate better understanding of the participants and lecturers (e.g. pictures about situation of damage by disasters and so on).
- The presentation should be about ten (10) slides. On each slide, please indicate only main points (NOT long-winded sentences).

(b) Language

- English

(c) Submission

- On the first day of program in Japan (at the time of program orientation from JICA officer)
 - When participants come to Japan, please bring your Job Report Presentation in electronic file (PC, USB, etc.)

(d) Job report presentation

- Job report presentation is planned to be held at the very beginning of the program at a seminar room in JICA Kansai Center.
- Each participant has 15-20 minutes to make a presentation and 5 minutes for Q&A.

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	
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>		

<p align="center">【2】外国からの支援に関する情報 Assistance by Development Partners (donors)</p>	
<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>	

ANNEX 2:

The following is the schedule in FY2017 for your reference only.

Program Schedule for Disaster Management on infrastructure (River, Road and Port)(B)							
Training Period: November 6 - December 23, 2017							
Date		Time		Type	Subject	Place to Visit	Stay at
11/6	MON		~		Arrival		JICA Kansai
11/7	TUE	10:30	~ 12:00		Briefing	JICA Kansai	JICA Kansai
		13:30	~ 15:00		Program Orientation		
		15:10	~ 17:30		Visit to Disaster Reduction and Human Renovation Institution	Disaster Reduction and Human Renovation Institution	
11/8	WED	10:00	~ 10:30		General Orientation ① (Japanese Education)	JICA Kansai	JICA Kansai
		13:15	~ 15:15		General Orientation② (Japanese Economy)		
		15:30	~ 17:30		General Orientation③ (Japanese Politics and its Administration)		
11/9	THU	10:00	~ 11:30		Japanese Language Class	JICA Kansai	JICA Kansai
		14:00	~ 16:30		Disaster Management Administration in Japan		
11/10	FRI	9:30	~ 11:00	P	Course Orientation	JICA Kansai	JICA Kansai
		11:00	~ 12:30	P	Job Report Presentation		
		13:30	~ 16:30	P	Job Report Presentation		
11/11	SAT		~		No Official Program		JICA Kansai
11/12	SUN		~		No Official Program		JICA Kansai
11/13	MON	9:30	~ 12:30	L	Natural Disasters in Kinki Recent Years	JICA Kansai	JICA Kansai
		13:30	~ 16:30	P	Action Plan Making Workshop		
11/14	TUE	9:30	~ 12:30	P	Action Plan Making Workshop	JICA Kansai	JICA Kansai
		13:30	~ 16:30	L	Environment and the Role of Civil Engineers		
11/15	WED	10:30	~ 11:15	P	Courtesy Call to Mr. Ikeda, Director General, Kinki Regional Development Bureau, Ministry of Land Infrastructure, Transport and	Kinki Regional Development Bureau, MLIT	JICA Kansai
		13:30	~ 16:30	L	Infrastructure Development and Japan's ODA	JICA Kansai	
11/16	THU	9:30	~ 11:00	L	Response to Disasters by District Meteoroidal Observatory (Weather Forecast)	JICA Kansai	JICA Kansai
		11:00	~ 12:30	L	Response to Disasters by District Meteoroidal Observatory (Earthquake)		
		13:30	~ 16:30	L	Information and Telecommunication for Disaster		
11/17	FRI	9:30	~ 12:30	L	Practical Works for Road Safety Countermeasures(Road Disaster Management)	JICA Kansai	JICA Kansai
		13:30	~ 16:30	L	Unpaved Roads Maintenance in Developing Countries		
11/18	SAT		~		Visit to Kobe Suzurandai High School for Exchange Program	Kobe Suzurandai High School	JICA Kansai
11/19	SUN	9:20	~ 10:10		Move from JICA Kansai to Shinkobe St. via Nada St.		JICA Tokyo
		10:49	~ 13:33		Move from Shinkobe St. to Tokyo St.		
		13:50	~ 14:20		Move from Tokyo St. to JICA Tokyo		
11/20	MON	9:30	~ 11:00	L	International Cooperation of Ministry of Land, Infrastructure Transport and Tourism	JICA Tokyo	JICA Tokyo
		11:00	~ 12:30	L	Introduction to Disaster Management Technology in Japan		
		13:30	~ 16:30	L	Road Disaster Prevention in Japan		
11/21	TUE	10:00	~ 12:30	L	Handling of Management Equipment for Monitoring Disasters	Takuwa Technology Development Center	JICA Tokyo
		14:15	~ 16:30	O	Kinu River Disaster Site	Kinu River Emergency Measure Project Office (Joso City, Ibaragi Pref.) Kinu River Project Site	
11/22	WED	9:30	~ 12:30	L	Outline of Global Flood Alert System, GFAS	JICA Tokyo	JICA Tokyo
		13:30	~ 16:30	L	Outline of Flood Forecasting Model		
		16:30	~ 17:00		Review		
11/23	THU		~		No Official Program		JICA Tokyo

11/24	FRI	9:30 ~ 12:30	L	Soft Ground Improvement Technology in Urban Areas	TBS	JICA Kansai
		13:30 ~	O	Tokyo Bay Aqua Line and Umihotaru (Imperial Palace, Prime Minister's Official Residence, National Diet,	Tokyo Bay Aqualine and Umihotaru	
		~ 16:00	O	Tokyo Tower	Tokyo Tower (Minato Ward, Tokyo)	
		17:10 ~ 19:45		Move from Tokyo St. to JR Shinkobe St.		
		20:00 ~ 20:15		Move from JR Shinkobe St. to JICA Kansai		
11/25	SAT	~		No Official Program		JICA Kansai
11/26	SUN	~		No Official Program		JICA Kansai
11/27	MON	9:30 ~ 12:30	L	Rivers in Japan	JICA Kansai SR35	JICA Kansai
		13:30 ~ 16:30	L	Disaster Countermeasures for Rivers (Flood/Earthquake/Tsunami)		
11/28	TUE	10:00 ~ 11:30	L	Integrated Control of Dams in Yodo River System	Yodo River Dam Control Office (Hirakata City, Osaka Pref.)	JICA Kansai
		12:00 ~ 13:00	O	Move from Yodo River Dams Control Office to Amagase Dam Redevelopment Office		
		13:00 ~ 13:30	L	Outline of Amagase Dam	Amagase Dam (Uji City, Kyoto Pref.)	
		13:30 ~ 14:00	L	Outline of Amagase Dam Redevelopment Project		
		14:00 ~ 15:00	L	Amagase Dam Redevelopment Project Site		
		15:15 ~ 16:30	O	Byodoin Temple		
11/29	WED	10:00 ~ 11:00	L	Yodo River Improvement Works(History of River Improvement Works)	Kema Branch Office, Yodo River Office, KRDB	JICA Kansai
		11:00 ~ 12:30	O	Move to Upper Stream(Observation of Super Levee, Wand and etc.)	Super Levee, Wand along Yodo River	
		12:30 ~ 14:00	O	Sakuradeai Kan(Regional Promotion and Exchange Facility)	Sakuradeai Kan (Hachiman City, Kyoto Pref.)	
		14:20 ~ 15:00	O	Misu Lock Gate	Misu Lock Gate Museum (Kyoto City, Kyoto Pref.)	
		15:15 ~ 16:30	O	Exploring Fushimi Minato Area and Gekkeikan Okukura Museum	Gekkeikan Okura Museum (Kyoto City, Kyoto Pref.)	
11/30	THU	9:30 ~ 12:30	L	Disaster Damage Restoration Methods	JICA Kansai	JICA Kansai
		13:30 ~ 14:00		Move from JICA Kansai to Ina River Office		
		14:00 ~ 14:55	L	Comprehensive Flood Control Efforts of Ina River Office and Outline of Developing Hazard Map	Ina River Office (Ikeda City, Osaka Pref.)	
		15:30 ~ 15:45	O	Regulating Reservoir for Disaster Mitigation	Taiyo Inagawa Driving School (Kawabe Gun, Hyogo Pref.)	
		16:25 ~ 16:40	O	Hitokura Dam	Hitokura Dam (Kawanishi City, Hyogo Pref.)	
12/1	FRI	9:30 ~ 12:30	L	River Improvement Methods by Utilizing Nature and Disaster Management Projects(Groin Works)	JICA Kansai	JICA Kansai
		13:30 ~ 16:30	P	Developing Action Plan -Review		
12/2	SAT	~		No Official Program		JICA Kansai
12/3	SUN	~		No Official Program		JICA Kansai
12/4	MON	9:30 ~ 12:30	L	Sabo in Japan(Current Sediment Related Disasters)	JICA Kansai	JICA Kansai
		13:30 ~ 16:30	L	Restoration for Native Forest in Construction Site		
12/5	TUE	10:00 ~ 11:00	L	Yamato River Improvement Work/ Kamenose Landslide Countermeasures Project	Yamato River Office, (Fujidara City, Osaka Pref.)	JICA Kansai
		12:15 ~ 14:30	O	Observation of Kamenose Landslide Museum and Video Viewing	Kamenose Landslide Museum	
		15:30 ~ 16:30	O	Todaiji Temple		
12/6	WED	9:30 ~ 12:30	L	Slope Protection Methods(Design)	JICA Kansai	JICA Kansai
		13:30 ~ 16:30	L	Slope Protection Methods(Mountain Tunnel)		
12/7	THU	9:30 ~ 12:30	L	History of Sabo and Techniques to Prevent Debris Flow	JICA Kansai	JICA Kansai
		13:30 ~ 16:30	O	Rokko Sabo Dams(including Hazard Map and Soil Cement Construction Method)	Rokko Sabo Office (Kobe City, Hyogo Pref.)	
12/8	FRI	9:30 ~ 12:30	L	Management of Road Bridges	JICA Kansai	
		13:30 ~ 16:30	P	Action Plan Development -Review		JICA Kansai
				-Action Plan Draft Presentation		

12/9	SAT		~		No Official Program		JICA Kansai
12/10	SUN		~		No Official Program		JICA Kansai
12/11	MON	9:00	~	10:00	L Training for Developing Hazard Map	JICA Kansai	JICA Kansai
		10:30	~	12:00	O Training for Developing Hazard Map	Aotani Area, Nada Ward, Kobe City	
		13:30	~	16:30	P Training for Developing Hazard Map	JICA Kansai	
12/12	TUE	9:30	~	10:45	O Akashi Kaikyo Bridge/Bridge Exhibition Center	Bridge Exhibition Center	Urban Hiroshima Executive
		10:45	~	11:15	O Maiko Marine Promenade	Maiko Marine Promenade	
		13:15	~	14:00	O Nojima Fault Preservation Museum	Nojima Fault Preservation Museum	
					Move to Nishiakashi St.		
		15:31	~	15:42	Move from Nishiakashi St. to Himeji St.		
		15:55	~	16:50	Move from Himeji St. to Hiroshima St.		
12/13	WED	9:30	~	11:30	O Hiroshima Sediment Disaster Restoration Sites	Hiroshima Sediment Disaster Sites (Hiroshima City, Hiroshima Pref.)	JICA Kansai
		13:00	~	14:30	O Hiroshima Peace Memorial Museum	Hiroshima Peace Memorial Museum	
		14:50	~		Move to Hiroshima St.		
		16:03	~	17:15	Move from Hiroshima St. to Shinkobe St.		
		17:20	~	17:40	Move from Shinkobe St. to JICA Kansai		
12/14	THU	9:30	~	11:30	L Japanese Ports and Harbors/Observation of Kinki Region Disaster Management Center in Coastal Area	JICA Kansai	JICA Kansai
		13:30	~	16:30	L Ground Reinforcement Technology for Disaster Prevention and Mitigation	JICA Kansai	
12/15	FRI	9:30	~	12:30	L Disaster Mitigation Countermeasure and Restoration of Lifeline(Water Works)	JICA Kansai SR41	JICA Kansai
		13:40	~	16:30	O Earthquake Resistance Kobe Port Facilities	Kobe Ports and Harbors Office (Kobe City, Hyogo Pref.)	
12/16	SAT		~		No Official Program		JICA Kansai
12/17	SUN		~		No Official Program		JICA Kansai
12/18	MON	10:00	~	12:00	L Earthquake Damage and Restoration of Kobe Port	JICA Kansai	JICA Kansai
		14:00	~	17:00	L Observation of Higashinada Sewage Treatment Plant/Recovery Process from the Great Awaji Hanshin Earthquake and its	Higashinada Sewage Treatment Plant	
12/19	TUE	9:30	~	12:30	P Action Plan Development	JICA Kansai	JICA Kansai
		13:30	~	16:30	P Action Plan Development		
12/20	WED	9:30	~	12:30	P Action Plan Development	JICA Kansai	JICA Kansai
		13:30	~	16:30	P Action Plan Development		
12/21	THU	9:30	~	12:30	P Action Plan Presentation	JICA Kansai	JICA Kansai
		13:30	~	16:30	P Action Plan Presentation		
12/22	FRI	10:30	~	11:30	P Evaluation Meeting	JICA Kansai	JICA Kansai
		11:30	~	12:00	Closing Ceremony		
		12:00	~	13:00	Farewell Party		
12/23	SAT		~		Departure from Japan		
Activity Type							
L- Lecture, O- Observation, P-Practice/Presentation, N- No Official Schedule							

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, Knowledge Co-Creation programs (until 2015, so called “training”), JOCV programs, etc.

Within this wide range of programs, Knowledge Co-Creation Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 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 are being customized to address the specific needs of different target organizations, 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 was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

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 this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

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.



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