



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 2017

NO. J1704251 / ID. 1784491

Course Period in Japan: From November 6th, 2017 to December 23rd, 2017

This information pertains to one of the JICA Knowledge Co-Creation Program (Group & Region Focus) of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

'JICA Knowledge Co-Creation (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 “Building a resilient infrastructure(SDGs9)”

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)(A)” 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 system and special engineering method 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) (J1704251)

2. Course Period in JAPAN

From November 6th, 2017 to December 23rd, 2017

3. Target Regions or Countries

Indonesia, Cape Verde, Guyana, Kenya, Thailand, Tajikistan, Papua New Guinea, Viet Nam, Peru

4. Eligible / Target Organization 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)

12 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 organization.

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 6th, 2017 to December 23rd, 2017) <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) Natural disasters in Japan (2) Natural disasters and its analysis in each country	Lecture and Field visit
 To understand the national, prefectural and municipal governmental policies, plans and measures on Disaster Risk Reduction (DRR) in Japan.	(1) National governmental policies, plans and measures (2) Prefectural governmental policies, plans and measures (3) Municipal governmental policies, plans and measures	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) Weather forecast (2) Early warning system (3) Information sharing system	Lecture and Field visit

<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>Lecture and Field visit</p>
<p><E> To prepare an Action Plan and propose the applicable technics / knowledge to participating organizations and countries.</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 24th, 2017)</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:

Applicants should be university graduates or equivalent in the area of civil engineering.

2) Current Duties & Experience in the relevant field:

Applicants should be civil engineers of central or local government with having 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

Age: Applicants are recommended between 25 to 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 6th, 2017**)

(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 6th, 2017.**

5. Documents to be submitted by accepted participants:

(1) Basic Information Matrix:

Please submit Basic Information Matrix by e-mail by **October 24th, 2017.**

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, and
- (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

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

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 International 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, or 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 14 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 / traveler's check 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 24th, 2017 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 the each slide, please indicate only main point (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 the very beginning of the program at a seminar room in JICA Kansai International Center.
- Each participant is requested to make a presentation in 15 minutes including 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) 水文観測データの有無（雨量、水位、潮位について） Existence of Hydrological Observation Data (Please write "O" if the observation carries out, or "x" if not.)	雨量 Rainfall	
	水位 Water Level	
	潮位 Tide Level	
1-1-3-(b) 水文観測機関とインフラ担当機関の連絡体制の有無 Existence of the established system for cooperation between organization in charge of hydrological observation and organization in charge of infrastructure (Please write "O" if such relationship exists, or "x" if not)		
1-1-4 国全体でよく起きる自然災害 Please indicate most typical disasters in your country		
1-1-5 上記1-1-4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))		
1-1-6 上記1-1-5に対しての現行の対応策 Please indicate some countermeasures against disasters which mentioned the above question (1-1-5)		
1-1-7 上記1-1-6を行ううえでの課題 Please indicate some challenges to implement 1-1-6		

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 write "○" if such law(s) and/or system(s) exist for the following infrastructure, or "×" if not)	道路 Road	
	河川 River	
	港湾 Port	
	その他 others	
1-2-2 災害復旧工法としての設計基準の有無 Existence of design basis and standards that prescribes post-disaster construction methods (Please write "○" if such design basis exist, or "×" if not. Besides, if you choose "○", please describe and submit outline of them on other piece of paper)	道路 Road	
	河川 River	
	港湾 Port	
	その他 others	
1-3-1 災害に関するソフト対策（ハザードマップ等）の有無 Existence or Non-Existence of "intangible" systems(s) against disasters(e.g. a hazard map to show prediction of damages by disasters) (Please write "○" if such system(s) exist, or "×" if not)		

【2】外国からの支援に関する情報 Assistance by Development Partners(donors)	
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	
2-2 その他の外国からの支援 Project or Assistance by other donors/countries	

ANNEX 2:

The following is the schedule in last year for your reference only.

Program Schedule					
Course (Group) : Disaster Management on Infrastructure (River, Road and Port)(B)					
period : October 24th, 2016 - December 17th, 2016					
Date	Time	Type	Module	Subject	Organization
10/24	MON			Arrival in Japan	
10/25	TUE	10:00-12:30		Briefing and JICA Kansai Tour	JICA Kansai
		14:00-16:00		Program Orientation	Program Division 2, JICA Kansai
		18:00-19:30		Japanese Language Class	
10/26	WED	10:00-11:30	L	General Orientation: Japanese Education	
		13:15-15:15	L	General Orientation: Japanese Economy	
		15:30-17:30	L	General Orientation: Japanese Society	
10/27	THU	9:30 - 11:00	O D	Construction Technology Expo 2016 Kinki	Public Association for Construction Services in Kinki Region (CSKR)
		13:30-16:30	L A,B,C	Disaster Management System in Japan	Director, Research Dep., Disaster Reduction and Human Renovation Institution(DRI)
		18:00-19:30	L	Japanese Language Class	
10/28	FRI	9:30-12:30	L A,B,C	Disaster Management Administration of Local Government Kobe City	Managing Director of Research, Kobe Institute of Urban Research
		13:30-16:30	L A,B,C	Disaster Education in Kobe city	Board of Education, Kobe City
		18:00-19:30	L	Japanese Language Class	
10/29	SAT	9:30-12:30	O	Visit to Disaster Reduction and Human Renovation Institution	Disaster Reduction and Human Renovation Institution(DRI)
		14:00-17:00	L/O	Japanese Language Class	
10/30	SUN		N	(No Official Program)	
10/31	MON	9:30-11:00	A, E	Course Orientation	Public Association for Construction Services in Kinki Region (CSKR)
		11:00-17:00	P A	Job Report Presentation	Public Association for Construction Services in Kinki Region (CSKR)
11/1	TUE	10:30-11:15		Courtesy Call to Director General of Kinki Regional Development Bureau, MLIT	Director General, Kinki Regional Development Bureau, MLIT
		13:30-16:30	L A,B	Natural Disasters in Kinki Region in Recent Years	KRDB, MLIT
11/2	WED	9:30-12:00	E	PCM	JICA Kansai
		13:30-16:30	E	PCM	JICA Kansai

11/3	THU	9:30-12:30	L	A,B,D	Disaster Countermeasures for Rivers(Flood/Earthquake/Tsunami)	Manager, Civil Engineering Dept., Japan Development and Construction
		PM	N		(No Official Program)	
11/4	FRI	9:30-12:30	L	A,B	Rivers in Japan	River Dep., Kinki Regional Development Bureau, MLIT
		13:30-16:30	L	A,B	Environment and the Role of Civil Engineers	Research Center for Environment Quality Management, Kyoto University Japan
11/5	SAT		N		(No Official Program)	
Study Trip to Tokyo (November 6 - November 12)						
11/6	SUN	AM-PM			Move to Tokyo from JICA Kansai JICA Kansai(4 Taxies)→Shinkobe Station(Nozomi #124 Departure Time: 11:06)→Tokyo Station(Arrival Time: 13:53)→Leaf Court Shintoshin (JICA Bus) Expected Time of Arrival at Leaf Court Shintoshin is around 15:00	
11/7	MON	9:30-10:30	L	A,B	International Cooperation of Ministry of Land, Infrastructure Transport & Tourism	Overseas Project Div., Policy Bureau, MLIT
		10:30-12:30	L	A,B	Introduction to Disaster Management Technology in Japan	Executive Director, Japan Bosai Platform
		13:30-16:30	L	A,B,D	Road Disaster Prevention in Japan	Geology Research Group, Public Works Research Institute
11/8	TUE	10:00-11:15	O	A,B,D	Kinu River Disaster Site	Shimodate River Office, Kanto Regional Development Bureau, MLIT
						Public Association for Construction Services in Kinki Region (CSKR)
		14:30-16:30	L	B,C,D	Handling of Management Equipment for Monitoring of Disaster	Overseas Sales Promotion Unit, Takuwa Corporation Ltd.
11/9	WED	9:30-12:30	L	A,D	River Improvement Methods by Utilizing Nature and Disaster Management Projects (Groyne)	Nishi Nihon Institute of Technology
		13:30-16:30	L	A,B	Infrastructure Development and Japan's ODA	(Former Prof.) Faculty of Human & Social Studies, Keisen University
11/10	THU	9:30-12:00	L	D	Soft Ground Improvement (Ground Strengthening & Measures against Liquefaction)	Japan Foundation Engineering Co., Ltd
		13:30-15:30	O	D	Construction site/ Tokyo Bay Aqua Line/Reflection	Japan Foundation Engineering Co., Ltd

11/11	FRI	9:30-12:30	L	B, C	Introduction to GFAS(Global Flood Alert System)	International Development Institute-Japan
		13:30-16:30	L	A,B,C	Outline of Flood Forecasting Model	Global Center of Excellence for Water Hazard and Risk Management, Public Works Research Institute
11/12	SAT	9:00-12:20	O		Hato Bus Morning Tour (Sightseeing in Tokyo:Tokyo Tower, Imperial Palace, Asakusa)	
		PM			Move from Tokyo station to JICA Kansai Tokyo Station(Nozomi #37Departure Time: 13:30) →Shinkobe Station(Arrival Time: 16:22) →JICA Kansai(Taxi) Expected time of arrival at JICA Kansai: 17:00	
11/13	SUN		N		(No Official Program)	
11/14	MON	9:30-11:00	L	C	Response to Disasters by District Meteorological Observation (Weather Forecast)	Osaka District Meteorological Observatory
		11:00-12:30	L	C	Response to Disasters by District Meteorological Observation (Earthquake)	Osaka District Meteorological Observatory
		14:00-17:15	L	C,D	Comprehensive Flood Control Management on Ina River (Outline of How to Make Hazard Map)	Ina River Office, KRDB, MLIT
						Public Association for Construction Services in Kinki Region (CSKR)
11/15	TUE	10:15-11:30	L	B,D	Integrated Control of Dams in Yodo River System	Vice Director, Yodo River Dams Control Center, KRDB, MLIT
		13:00-14:00	O	B,D	Amagase Dam	Vice Director, Yodo River Dams Control Center, KRDB, MLIT
		14:00-15:30	O	B,D	Amagase Dam Redevelopment Project Site	Vice Director, Biwako Office, KRDB, MLIT
						Public Association for Construction Services in Kinki Region (CSKR)
11/16	WED	10:00-11:30	L	B,D	Yodo River Improvement Works	Vice Director, Yodo River Office, KRDB, MLIT
		13:00-16:30	O	D	Yodo River Great Weir/Kema Pump Station/Three River Meeting Point/Misu Lock Gate	

11/17	THU	9:30-12:30	L	A, D	Disaster Damage Restoration Methods (Rivers and Seacoast)	Planning Dep., KRDB, MLIT
		13:30-16:30	L	A,B	History of Sabo and Techniques to Prevent Debris Flow	Specially Appointed Professor, National Graduate Institute for Policy Studies
11/18	FRI	10:00-12:30	L	A,C	Sabo in Japan(Current Sediment related Disasters)	River Dep., KRDB, MLIT
		13:30-15:00	O	C,D	Rokko Sabo Dams/Hazard Map/Soil Cement Construction Method	Vice Director, Rokko Sabo Office, KRDB, MLIT
						Public Association for Construction Services in Kinki Region (CSKR)
11/19	SAT				Development Education(Exchange with Hyogo Prefectural University Students)	
11/20	SUN		N		(No Official Program)	
Study Trip to Nara and Wakayama(November 21 - November 22)						
11/21	MON	AM	O		JICA Kansai (Bus)→Nara Prefecture(Landslide in Ui Area)→	
		11:30-12:00	O	A,B,D	Landslide in Ui Area	Prefectural Lana Management Dep., Nara Prefecture Government
		11:30-12:30	O	D	Akadani Area →National Road No.168	Vice Director Kisancho Sabo Office, KRDB, MLIT
		15:45-17:00	O	D	National Road No.311 Disaster Restoration Area(Takijiri Area)→Tanabe City	Land Development Dep., Wakayama Prefecture Government
		11:30-17:00				Public Association for Construction Services in Kinki Region (CSKR)
11/22	TUE	10:00-12:15	O	B,C	Disaster Prevention Facilities in Tanabe City	Director, General Affairs Dep., Tanabe City Government
		14:00-15:00	O	D	Tsunami Prevention Facilities	Wakayama Ports and Harbors Office, KRDB, MLIT
		15:00-19:00			Move to JICA Kansai from Tanabe City Expected time of arrival at JICA Kansai : 19:00	
11/23	WED	9:30-12:30	L	D	Restoration for Native Forest in Construction Site	International Association For Restoration of Native Forest
					(No Official Program)	
11/24	THU	9:30-12:30	L	D	Slope Protection Methods(Design)	Director, Kansai Branch Office, Daiya Consultants Co., Ltd.
		13:30-16:30	L	A	Practical Works for Road Safety Countermeasure (Road Disaster Management)	Road Dept., KRDB, MLIT
11/25	FRI	9:30-12:30	L	A,D	Management for Road Bridges	Road Dept., KRDB, MLIT
		13:30-16:30		E	Reflection	
11/26	SAT		N		(No Official Program)	
11/27	SUN		N		(No Official Program)	

11/28	MON	9:30-12:30	L	D	Slope Protection(Mountain Tunnel Construction Methods)	Director, Technology Depo., Civil Engineering HQ, Konoike Construction Co., Ltd.
		13:30-16:30	L	A,D	Slope Protection Methods for Roads and Bridges(Landslides)	Planning Dept., KRDB, MLIT
11/29	TUE	9:30-12:30	L	C,D	Information and Telecommunication of Disaster Times(Hardware Application)	Planning Depot., KRDB, MLIT
		13:30-16:30	L	D	Ground Reinforcement Technology for Disaster Prevention and Mitigation	Dept., of Civil & Environmental Engineering , National Defense Academy
Study Trip to Shin-Fuji & Ishikawa (November 30 - December 1)						
11/30	WED				JICA Kansai→Shinkobe st.(Hikarai 462 Departure Time 9:25)→Hamamatsu st.(Kodama 644 Departure Time 11:20)→Sin-Fuji st.(Bus Departure time 12:30)→Fuji Sabo Office(Arrival Time 13:00)	
		13:00-17:00	L	A, B, C, D	Sabo Projects around Mr. Fuji	Fuji Sabo Office, Chubu Regional Development Bureau, MLIT
						Public Association for Construction Services, Kinki Region (CSKR)
12/1	THU				Hotel(Bus)→Yui Landslide project area (Bus)→Mishima st. (Kodama 654 Departure Time 14:50)→Tokyo st. (Arrival Time 15:47)(Kagayaki 511 Departure Time 16:24)→Kanazawa st.(Arrival Time18:54)	
		10:30-14:00	O	D	Fuji Sabo Project Sites (Yui Landslide)	Fuji Sabo Office, Chubu Regional Development Bureau, MLIT
12/2	FRI	9:00-10:00	O		Kenrokuen (Japanese Garden)	
		10:30-15:00	L	A,B	Mitigation Project of Seashore Erosion along Ishikawa Coast	Kanazawa Office, River & National Highway, Hokuriku Regional Development Bureau, MLIT
						Public Association for Construction Services, Kinki Region (CSKR)
		15:00-19:00			Kanagawa Sea Coast (Bus)→Kagaonsen st.(Thunderbird 32 Departure Time 15:44)→Shin Osaka st.(Arrival Time 18:03) →Shin Osaka st.(JICA Bus Departure Time 18:15) →JICA Kansa(Arrival time 19:00)	
12/3	SAT		N		(No Official Program)	
12/4	SUN		N		(No Official Program)	
Study Trip to Akashi Kaikyo Bridge & Hiroshima (December 5- December 6)						
12/5	MON				JICA Kansai(Bus)→Akashi Kaikyo Bridge(Bus) → Michino Eki(Bus)→Awaji Service Area (Bus)→Nojima Fault Museum(Bus)→Nishiakashi Station(Hikari 471 Departure Time 15:31) →Himaji Station(Sakura 563 Departure Time 15:50) →Hiroshima Station (Arrival Time 16:52) →Hotel	
		9:30-12:30	O	D	Akashi Kaikyo Bridge	Planning Div., Honshu-shikoku Bridge Expressway Co., Ltd.
		13:45-14:45	O	D	Nojima Fault Museum	Planning Div., Honshu-shikoku Bridge Expressway Co., Ltd.

12/6	TUE	9:00-12:00	O	D	Hiroshima Sediment Disaster Restoration Sites(Sabo)	Oota River Office, Chugoku Reginal Office, MLIT
						Public Association for Construction Services in Kinki Region (CSKR)
		13:00-14:30	O		Hiroshima Peace Memorial Museum	
					Museum(Jumbo Taxi)→Hiroshima Station(Sakura556 Departure Time15:17)→Shinkobe Station(Arrival Time 16:30)→ JICA Bus →JICA Kansai(Arrival Time 17:00)	
12/7	WED	9:00-10:00	L	B	Outline of Hazard Map	Representative, BOSAI International
		10:00-12:30	O	B	Field Survey in Aotani Area	
		13:30-16:30	P	B	Development of Hazard Map	
						Asian Disaster Reduction Center
12/8	THU	9:30-12:30	L	D	Disaster Management and Restoration in Lifeline (Waterworks)	Management and Planning Dept., Water Bureau, Kobe city
		14:30-16:30	L	A, B, C, D	Japanese Ports and Harbors	Ports and Airports Dept. , KRDB, MLIT
12/9	FRI	10:00-12:30	L	B	Earthquake Damage and Restoration of Kobe Port	Port Authority, Kobe City Government
		13:30-16:30	O	B,D	Earthquake Resistance Facilities of Kobe Port	Kobe Ports & Harbors Office, KRDB, MLIT
12/10	SAT			N	Submission of Questionnaire	
12/11	SUN			N	(No Official Program)	
12/12	MON	9:30-11:30	L	D	Disaster Management and Restoration in Lifeline (Sewage Works)	Director of Training Center, Japan Sewage Works Agency
		13:45-15:30	O	B,D	Yamato River Improvement Projects/ Kamenose Landslide Prevention Project Site	Vice Director, Yamato River Office, KRDB, MLIT
12/13	TUE	9:30-16:30	P	E	Individual Guidance for Action Plan Development * Upload final action plan to GIGAPOD	
12/14	WED	10:00-16:30		E	Action Plan Presentation	

12/15	THU	10:00-16:30	P	E	Action Plan Presentation	
12/16	FRI	10:00-11:30			Evaluation Meeting	Program Division 2, JICA Kansai
		11:30-12:00			Closing Ceremony	JICA Kansai
		12:00-13:00			Farewell Party	KRDB, MLIT
12/17	SAT				Departure from Japan	

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.



CORRESPONDENCE

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