Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

DISASTER MANAGEMENT ON INFRASTRUCTURE (RIVER, ROAD AND PORT)(A)
課題別研修「インフラ（河川・道路・港湾）における災害対策（A）」
JFY 2016
NO. J1604117 / ID. 1684490
Course Period in Japan: From May 16th 2016 to July 16th 2016

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 on 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

"Sendai Framework for Disaster Risk Reduction 2015-2030" was adopted as post-HFA at the 3rd UN World Conference on Disaster Risk Reduction in Sendai, Japan, 2015, which is to promote activities on disaster risk reduction worldwide. According to Sendai Framework for DRR, there are 4 priorities for Action.

1. Understanding disaster risk;
2. Strengthening disaster risk governance to manage disaster risk;
3. Investing in disaster risk reduction for resilience;
4. Enhancing disaster preparedness for effective response, and to "Build Back Better" in recovery, rehabilitation and reconstruction.

There are many countries in the world that are constantly stricken by great disasters, such as earthquakes, floods, and landslides. The "Disaster Management on Infrastructure (River, Road and Port)" course is designed for CIVIL ENGINEERS to allow them to establish disaster management system for infrastructure in a disaster-prone and / or stricken area. The overall goal of this course is that disaster mitigation and restoration for Infrastructure will be improved in participating organization.

For what?

This program aims to acquire knowledge on applicable techniques for more practical, efficient and effective disaster mitigation, preparedness and restoration, and make Action plan for his/her organization in charge of relevant fields.

For whom?

This course is offered to CIVIL ENGINEERS who are involved in infrastructure management (except for building and housing), from the viewpoint of investigation, planning, implementation or maintenance.

How?

Participants shall have opportunities in Japan to obtain new information and expand their knowledge of disaster prevention systems, restoration system and special engineering method implemented in Japan. Participants will also formulate the Action plan to diffuse the knowledge and ideas which they gain during stay in Japan. After going back your institution, you (also your institution) are required to implement that Action plan and report the result.

II. Description

1. **Title (J-No.): Disaster Management on Infrastructure (River, Road and Port)(A) (J1604117)**

2. **Course Period in JAPAN**
   From May 16th to July 16th 2016

3. **Target Regions or Countries**
   Philippines, Nepal, Vanuatu, Guyana, Peru, Turkey, Seychelles, Malaysia, Chile, Mozambique, Azerbaijan

4. **Eligible / Target Organization and Participants**

(1) Target Organizations:

This program is designed for governmental organizations in charge of disaster prevention and recovery for Infrastructure (road, river and port). The overall goal of this course is that disaster mitigation, preparedness and restoration for Infrastructure above mentioned will be improved in participating organization.
The kinds of disasters dealt with in the modules are limited to natural phenomena, such as flood, earthquake, tsunami and landslide which damage infrastructures in a short period of time. Please note neither drought, wildfire nor extreme temperature is dealt with in this course.

(2) Target Participants:

Target participants of this course 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 prevention, mitigation ,preparedness and restoration for Infrastructure (River, Road and Port), and make Action plan for their country or organization

8. **Overall Goal**
   Disaster prevention, mitigation 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:

(1) Preliminary Phase in a participant's home country

Participating organizations are required to make preparation for the course in the respective country.

Expected Module Output	Activities
Job report and Basic Information Matrix are formulated	Formulation and submission of Job Report and Basic Information Matrix (As for the details, please see the ANNEX 1.)

(2) Core Phase in Japan (From May 16th to July 16th 2016)

Participants will attend the Program implemented in Japan.

Expected Module Output	Subjects/Agendas	Methodology
<A> To understand the similarities and differences of the feature of natural disaster between the participant's country and Japan.	(1) Natural disasters in Japan (2) Natural disasters and its analysis in each country	Lecture and Field visit
<B> To understand the national, prefectural and municipal governmental policies, plans and measures 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 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
<D> To understand structural measures such as the engineering techniques for disaster mitigation ,preparedness and restoration for infrastructure against various natural disasters in Japan.	(1) River improvement (River & Dam) (2) "Sabo" (Erosion and Sediment Control) works (3) Road works (Road and Bridge) (4) Sea coast and Port (5) Quake-resistance	Lecture and Field visit
<E> To prepare Action Plan and propose the applicable technics / knowledge to participant's country or organization.	(1) Problem analysis, solution finding (2) Presentation of Action plan	Workshop Consultation Presentation

(3) Finalization Phase in a participant's home country

(July 17, 2016 to February 28, 2017)

Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program. Please submit your final progress report by the end of February 2017.

Expected Module Output	Activities
To implement the Action plan	Application and implementation of the Action plan in the participant's country

(4) Required Tasks:

Participants are required to participate in all modules actively and contribute to achieve the goals of this training.

In addition, they are also requested to complete following tasks during each phase of the course.

1) Job Report: Introduction and raising the issues of your country. Participants are required to make presentation about this report after coming to Japan. As for the details, please see the ANNEX 1.
2) Basic Information Matrix: As for the details, please see the ANNEX 1.
3) Action Plan: Participants are required to prepare and present their Action plan to summarize the results of whole training and Implement them.
4) Progress Report: Report about the degree of attainment of the Action plan. Submit by the end of February 2017.

10. Follow-up Cooperation by JICA:

In this program, JICA might extend follow-up support to participating organizations that intend to develop the result of the program further. Please note that the support shall be extended selectively based on proposals from the participating organizations.

III. Conditions and Procedures for Application

1. Expectations from 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 use the project 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 project 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 have equivalent educational qualifications 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) or infrastructure information management including administration of disaster mitigation.

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.

5) Military Service: Must not be serving any form of military service.

(2) Recommendable Qualifications

1) 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 respective country's JICA office (or the Embassy of Japan.)

*Pregnancy

Pregnant participants are strictly requested to attach the following documents in order to minimize the risk for their health:

1. letter of the participant's consent to bear economic and physical risks,
2. letter of consent from the participant's supervisor, and
3. doctor's letter with permission of her training participation.

Please ask JICA Staffs for the details.

(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 Expire date.

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

(4) Job Report Presentation:

Job Report Presentation should be submitted at the first day of your arrival to Japan. As for the detail, please see ANNEX 1.

(5) Basic Information Matrix:

Only those who passed the selection are required to submit by Email by the end of April. As for the detail, please see ANNEX 1.

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 **March 11, 2016**)

(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.*

(3) Notice of Acceptance:

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than April 8, 2016.**

5. 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 training 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**: Mr. Shingo TOMITA (Shingo.Tomita@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, http://www.jica.go.jp/english/contact/domestic/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 "KENSHU-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 fourteen desk-top computers have the 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 to several days 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 in Japan after 2 to 5 days after your arrival to Japan. It is highly advised to bring some cash / traveler's check in order to spend necessary money for the first 2 to 5 days stays after your arrival.

6. It is very important that 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 no facility or time during the training program.

ANNEX 1:

NECESSARY CONTENTS OF THE BASIC INFORMATION MATRIX & JOB REPORT PRESENTATION

< A > Basic Information Matrix (Only those who will pass the selection are required to submit by the end of April, 2016 to Shingo.Tomita@jica.go.jp)

The Basic information matrix aims to sum up basic information about disasters and share them with other participants and instructors. The Basic information matrix divides four parts. The first section is basic data of each country. The second section is asking some data on disaster for Infrastructure. The third section is information related to assistance by JICA and the government of Japan. 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 Presentation (Training participants who will pass the selection will be asked to make a Job Report presentation at the beginning of training period. So, please prepare and submit it to us on arrival to Japan.)

(a) Style

- Presentation should be prepared by Microsoft® Power Point.
- Presentation should cover following four elements.
  1. The missions of participants' organization and their own duty
  2. Natural disasters typically occur in participant's country, and that have occurred in recent years
  3. Own experience(s) of natural disasters in participant's work
  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 training
  - ➢ Please use some tables, figures and pictures to facilitate easier understanding of the participants and lecturers (e.g. pictures about situation of damage by disasters and so on).
- Desirable volume is about ten (10) slides. On the each slide, please indicate only main point (NOT long-winded sentences).

(b) Language

- English

(c) Submission

- First day of your arrival to Japan (at the time of program orientation from JICA officer)
  - ➢ When participants come to Japan, please bring Job Report Presentation in electrical data. (PC, USB, etc.)

(d) Presentation Date, Place and Time

- Job report presentation is planned to be held at a seminar room in JICA Kansai International Center.
- Each participant is requested to make a presentation in 15 minutes.

Basic Information Matrix

【1】基本情報 Basic Data		
1-0 氏名と国名 Your Name and Country		
1-1 人口（百万人） Population (million)		
1-2 面積（平方km） Surface Area sq. km		
1-3 一人当たりGDP GDP pp (USD)		
1-4 GDP成長率 Growth Rate		

【2】インフラ施設の自然災害に関する情報 Information on Disaster for Public Works		
2-1-1 主な地理・地質条件 Geographic & Geological conditions		
2-1-2 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	
2-1-3-(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 carrys out, or "×" if not.)	雨量 Rainfall	
	水位 Water Level	
	潮位 Tide Level	
2-1-3-(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 hydrogical observation and organization in charge of infrastructure (Please write "O" if such relationship exists, or "×" if not)		
2-1-4 国全体でよく起きる自然災害 Please indicate some perennial disasters in your country		

2-1-5 上記2-1-4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 (2-1-4))		
2-1-6 上記2-1-5に対しての現行の対応策 Please indicate some countermeasures against disasters which mentioned the above question (2-1-5)		
2-1-7 上記2-1-6の行ううえでの課題 Please indicate some obstacles and problems to implement 2-1-6		
2-2-1 上記2-1-4及び2-1-5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 2-1-4 and 2-1-5 (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	
2-2-2 災害復旧工法としての設計基準の有無 Exsistence of design basis and standards that prescribes post-disaster construction methods (Please write "○" if such design basis exsit, 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	
2-3-1 災害に関するソフト対策（ハザードマップ、災害情報の提供、早期警報システム等）の有無 Existence or Non-Existence of non-structural measures against disasters such as hazard maps , provision of disaster information and/or early warning systems, etc.) (Please write "○" if such system(s) exist, or "×" if not)		

【3】日本政府からの支援に関する情報 Assistance by Government of Japan	
3-1 当該分野のプログラム Related Program of this course	
3-2 本研修に関連のある主なプロジェクト（過去、現在、予定） Past, Present and Future Projects related to this course	
3-3 本研修への参加への期待（JICA事務所・先方政府） Expectation for participants to this course from JICA and their government	

ANNEX 2:

The following is schedule in last year for your reference only.
(The schedule is subject to change)

Training Program Schedule

Course (Group) : Disaster Management on Infrastructure (River, Road and Port)(A)

Training period : May 11th 2015 - July 18th, 2015

Date		Time	Type	Module	Subject	Lecturer or Organization		Place to visit
						Name	Position & Organization	
5/11	MON				Arrival in Japan			
5/12	TUE	10:00-12:30	L		Briefing and JICA Kansai Tour	Ms. Miyuki Arita	JICA Kansai	SR 33 & 34, JICA Kansai
		13:00-16:00	L		Program Orientation	Mr. Shingo Tamiya	Program Division 2, JICA Kansai	
		17:00-18:30			Japanese Language Class			
5/13	WED	10:00-12:00	L		General Orientation		JICA Kansai	Briefing Room, JICA Kansai
		13:15-15:15	L		General Orientation			
		15:30-17:30	L		General Orientation			
		18:30-20:00			Japanese Language Class			
5/14	THU	9:30-12:00	L	A, E	Course Orientation	Mr. Takefumi Baba	Public Association for Construction Services in Kinki Region (CSKR)	SR 33 & 34, JICA Kansai
		13:30-14:00	L	A, E	Lecture on How to Make Action Plan	Mr. Takefumi Baba	Public Association for Construction Services in Kinki Region (CSKR)	
		14:40-16:50	O		Visit to Disaster Reduction and Human Renovation Institution			
		17:30-19:00	L		Japanese Language Class			SR 33 & 34, JICA Kansai
5/15	FRI	10:00-16:00	P	E	Job Report Presentation	Mr.Takefumi Baba	Public Association for Construction Services in Kinki Region (CSKR)	SR 33 & 34, JICA Kansai
						TBA	Kinki Regional Development Bureau (KRDB), Ministry of Land, Infrastructure, Transport and Tourism(MLIT)	
		17:00-18:30			Experience-based Learning of Japanese			Ooyasutei Market
5/16	SAT		N					
5/17	SUN	10:00-16:00			**Move to Tokyo from JICA Kansai** JICA Kansai(Taxi) →Shinkobe station(Nozomi #124)→Tokyo Station(JICA Bus) →JICA Tokyo			
5/18	MON	9:30-12:30	L	A, B,	International Cooperation of Ministry of Land, Infrastructure Transport & Tourism	Ms. Akiko Fukushima	Overseas Project Div., Policy Bureau, MLIT	SR 408, JICA Tokyo
		14:00-15:30	L	A, B	Disaster Management of Japan	Mr. Mutsumi Shibanuma	Officer of International Office for Disaster Management, Cabinet Office	Cabinet Office
5/19	TUE	9:30-12:30	L	A,B	Disaster Countermeasures by MLIT (Disaster Restoration Projects)	Mr. Junichi Akanuma	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	SR 408, JICA Tokyo
		13:30-16:30	L	A, B	Disaster Countermeasures by MLIT	Mr. Taisa Yoshioka	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	
5/20	WED	9:30-12:30	L	A,B,D	Road Disaster Prevention in Japan	Mr. Yasuhito Sasaki	Geology Research Team, Public Works Research Institute	SR 408, JICA Tokyo
		13:30-16:30	L	A,B,D	Countermeasures against Liquefaction	Mr. Masanori Ishihara	Geology Research Team, Public Works Research Institute	
5/21	THU	9:30-12:30	L	B	Infrastructure Development and Japan's ODA	Prof. Hisao Tanimoto	(Former)Faculty of Human & Social Studies, Keisen University	SR 408, JICA Tokyo
		13:30-16:30	L	A,B	Current Status of Erosion Control(Sabo) in Japan	Mr. Hiroyuki Sugimoto	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	
5/22	FRI	9:30-12:00	L	D	Soft Ground Improvement (Ground Strengthening & Measures against Liquefaction)	Mr.Toshiro Hara	Japan Foundation Engineering Co., Ltd	SR 408, JICA Tokyo
		12:30-19:00	O	D	Site Visit : Redevelopment Working Site/Imperial Palace/Tokyo Bay Aqua Line/Tokyo Tower) & Reflection	Mr. Toshiro Hara	Japan Foundation Engineering Co., Ltd	Tokyo Metropolis

5/23	SAT		N					
5/24	SUN		N		**Move from JICA Tokyo to Leaf Court Shinjoshin**			
5/25	MON	9:30-12:30	L	A,D	Disaster Damage Restoration Methods (Roads and Bridges)	Mr. Hiroshi Obata	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	SR 408, JICA Tokyo
		13:30-16:30	L	B,C	Current Status of Flood Control in Japan	Mr. Takashi Kawai	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	
5/26	TUE	9:30-12:30	L	A,D	Disaster Damage Restoration Methods (Rivers and Seacoasts)	Mr. Hiromichi Morioka	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	SR 408, JICA Tokyo
		13:30-14:00	L	B,C	Introduction to GFAS	Mr. Toshiro Suzuki	International Development Institute-Japan	
		14:00-16:30	L	B,C,D	Handling of Management Equipment for Monitoring of Disaster	Ms. Junko Wakatsuki	Takuwa Corporation Ltd.	Auditorium, JICA Tokyo
5/27	WED	9:30-12:00	L	A,D	Disaster Damage Restoration Methods (Landslides)	Mr. Nobuo Osanai	Disaster Prevention & Relief Div., Water & Disaster Management Bureau, MLIT	Seminar Room 408, JICA Tokyo
		14:30-16:00	O	D	Site Visit : Ryukyukan & Showa Drainage Pump Station	Mr. Susumu Sugano	Edo River Office, Kanto Regional Development Bureau, MLIT	Edo River Office
						Mr. Takefumi Baba	Public Association for Construction Services in Kinki Region (CSKR)	
5/28	THU	9:30-12:30	L	A,D	Disaster Damage Restoration Methods (Landslides)River Improvement & Disaster Management Project Utilizing Nature	Mr.Yasutomo Fukutome	Nishi Nihon Institute of Technology	Seminar Room 408, JICA Tokyo
		PM			**Tohoku Study Trip** JICA Tokyo(Bus) →JR Shinjuku st.(JR)→Omiya st. (Hayabusa #25)→Sendai st. →Hotel			
5/29	FRI	9:30-11:00	L	A,D	Earthquake Recovery Efforts by Miyagi Prefecture	Mr. Hiroshi Sato	Community Development Promotion Div., Civil Engineering Dept., Miyagi Prefecture Department	Meeting Room 1002, 10F, Miyagi Prefecture Government Hall
		13:00-16:40	O		Observation of Sea Wall Construction Site	Mr. Kei Osanai	Sendai River Road Office, Tohoku Regional Dev., Bureau, MLIT	Sendai City, Natori City and Iwanuma City, Miyagi Prefecture
			O		Site Visit : Yuriage Area in Iwanuma City - Situation of Damage and Community Recovery Process	Mr. Hiroshi Sato	Community Development Promotion Div., Civil Engineering Dept., Miyagi Prefecture Department	
			O		Site Visit : Tamaura Area in Iwanuma City -Disaster Prevention Group Relocation			
5/30	SAT	10:15-12:00	O	A,D	Site Visit: Disaster Affected Area in Minamisanriku Town		Minamisanriku Town Tourism Association	Minami-sanriku town
		PM			Minamisanriku Town →Sendai Airport(JAL2208)→Osaka Airport(Bus) →JICA Kansai			

5/31	SUN		N					
6/1	MON	9:30-12:30	D		Reflection			SR33 & 34, JICA Kansai
		13:30-16:30	L	A,B	Natural Disasters in Kansai Region in Recent Years	Mr. Mitsugu Tanaka	Kinki Regional Development Bureau (KRDB), MLIT	
6/2	TUE	9:30-11:00	L	C	Response to Disasters by District Meteorological Observatory (Weather Forecast)	Mr. Yutaka Obata	Osaka District Meteorological Observatory	SR33 & 34, JICA Kansai
		11:00-12:30	L	C	Response to Disasters by District Meteorological Observatory (Earthquake)	Ms. Sayoko Furuta	Osaka District Meteorological Observatory	
		13:30-16:30	L	A,B	History of Sabo and Techniques to Prevent Debris Flow	Prof. Takahisa Mizuyama	Division of Forest and Biomaterials Science, Faculty of Agriculture, Kyoto University	
6/3	WED	8:30-	O		JICA Kansai(Bus)→Nara (Landslide in Ui Area)→			Gojo City, Nara Prefecture
		12:00-12:30	O	D	Site Visit : Landslide in Ui Area	Mr. Hirofumi Ichikawa	Department of Land Development, Nara Prefecture	
		13:00-13:45	O	D	Site Visit : Akadani Area →National Road No.168→	Mr. Kazuhiko Hayashi	Kisanchi Sabo Office, KRDB, MLIT	
		16:00-17:00	O	D	Site Visit : National Road No.311(Takiji Area)	Mr. Munehiro Zaiga	Department of Land Development, Wakayama Prefecture	Tanabe City, Wakayama Prefecture
						Mr. Takefumi Baba	Public Association for Construction Services in Kinki Region (CSKR)	
6/4	THU	10:00-11:00	O	B,C	Disaster Prevention Facilities in Tanabe City	Mr. Hiroshi Hayada	Disaster Prevention Community Development Div., Tanabe City Gov.	Tanabe City, Wakayama Prefecture
		13:00-14:30	O	B	Observation of Tsunami Disaster Prevention Education Center (Inomura no Hi no Yakata)			Arita Gun, Wakayama Prefecture
6/5	FRI	9:30-16:30	L	A,B,C	Disaster Prevention and Mitigation System Tsunami Disasters	Prof. Yoshiaki Kawata	Dean of Faculty of Safety Science, Kansai University	SR 33 & 34, JICA Kansai
6/6	SAT	9:30-16:30			Visit to Mariguchi Kindergarten (optional)			
6/7	SUN		N					
6/8	MON	10:30-11:00	O		Courtesy call to Director General of Kinki Regional Development Bureau (KRDB), Ministry of Land, Infrastructure, Transport & Tourism (MLIT)	Mr.Kazunori Oshima	Director, Kinki Regional Development Bureau(KRDB)	KRDB, MLIT
		13:30-16:30	L	A,B	Rivers in Japan & Reflection	Mr. Masaaki Okuno	River Dept., KRDB, MLIT	SR 41, JICA Kansai
6/9	TUE	9:30-12:30	L/P	B	Flood Control Planning in Japan	Mr. Masato Tooyama	Tokyo Headquarters, CTI, Engineering Co., Ltd.	SR. 41, JICA Kansai
		14:15-15:30	L	C,D	Comprehensive Flood Control Management on Ina River	Mr.Toshifumi Kotani	Ina River Office, KRDB, MLIT	Ina River Office, KRDB, MLIT
		15:30-17:00	O	C,D	Site Visit : Hitokura Dam & Flood Control Facilities	Mr.Toshifumi Kotani	Ina River Office, KRDB, MLIT	Ikeda City Osaka Prefecture
						Mr. Takefumi Baba	Public Association for Construction in Kinki Region(C.S.K.R)	

6/10	WED	10:15-10:45	O	B,D	Site Visit : Seta Weir(Control Room)	Mr. Tatsuhiro Inoue	Biwako Office, KRDB, MLIT	Biwako Office, KRDE
		10:45-11:45	L	B,D	Seta Weir			
		13:45-14:15	L	D	Flood Control by Yodo River Control Center	Mr. Ryaji Shirakawa	Yodo River Dams Control Center, KRDB, MLIT	Yodo River Dams Control Center
		15:30-16:00	L/O	D	Site Visit : Amagase Dam			
6/11	THU	10:00-11:30	L/O	B,D	Yodo River Improvement Works	Mr. Masami Sakuma	Yodo River Office, KRDB, MLIT	Kema Pumping Station
		12:30-13:00	O	D	Site Visit : Super Levee and Wand(Lagoon)	Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	Yodo River
		13:00-15:30	O	D	Site Visit : Yodo River Museum and Misu Lock Gate			Misu Lock Gate
6/12	FRI	10:00-12:30	L	B,D	Observation of Tsunami Storm Surge Disaster Prevention Station	Mr.Keisuke Fukumoto	City Development Dep., Osaka Pref. Government	Tsunami Storm Surge Disaster Prevention Station
		11:30-12:30	L	B,D	Flood Control Plan of Osaka Prefecture	Mr. Keisuke Fukumoto	City Development Dep., Osaka Pref. Government	Nishiosaka Flood Control Office
		13:00-16:30	O	B,D	Site Visit : Hanazono Multipurpose Retarding Basin, Neya River Underground Channel and Wakae Shaft	Mr. Mitsuru Niibori	Nishiosaka Flood Control Office, Osaka Pref. Government	Osaka Prefecture
						Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	
6/13	SAT	9:00-10:30	L		Rekishi Kaido - Touch the Spirit of Japan		Rekishi Kaido Promotional Council	SR 41 JICA Kansai
		13:30-15:00	O		Heian Jingu-shrine			Kyoto Prefecture
		15:30-16:30	O		Kinkakuji-temple			
		17:00-17:45	O		Kyoto Handicraft Center			
6/14	SUN		N					
6/15	MON	9:30-16:30	L	A, B, C	Earthquake Disaster Prevention, Mitigation and Restoration System for Lifeline	Prof. Nobuoto Nojima	Dept. of Civil Engineering, Faculty of Engineering, Gifu University	SR 41, JICA Kansai
6/16	TUE	9:30-12:30	L	B	Efforts for Creative Reconstruction from Great Hanshin Awaji Earthquake	Mr. Kazunori Takasaki	Disaster Prevention Bureau, Hyogo Prefecture	SR 35, JICA Kansai
		13:30-16:30		E	Reflection			
6/17	WED	9:30-12:30	L	D	Disaster Management and Restoration in Lifeline (Gas)	Mr. Takaharu Nakauchi	Pipeline Business Unit, Osaka Gas Co., Ltd	SR 35, JICA Kansai
		13:30-16:30	O	B,D	Introduction to Seismic Design of Bridges	Prof. Akira Igarashi	Research Center for Fluvial and Coastal Disasters, Disaster Prevention Research Institute Kyoto University	
6/18	THU	9:30-11:00	L	B	Kobe City's Redevelopment & Land Readjustment Projects	Mr. Atsushi Oda	Urban Redevelopment Div., City Planning Bureau, Kobe City Gov.	SR 41, JICA Kansai
		11:00-12:30	L	B	Kobe City's Urban Redevelopment Projects	Mr. Yushiki Matsumura	Urban Redevelopment Div., City Planning Bureau, Kobe City Gov.	
		13:30-16:30	L	B	Community Based Disaster Risk Management of Kobe City	Mr. Keito Moriya	Prevention Department, Kobe City Fire Bureau	
6/19	FRI	9:30-12:30	L	D	Disaster Management and Restoration in Lifeline (Waterworks)	Mr. Yasutaka Matsuda	Div.of Management and Planning, Water Bureau, Kobe city	SR 41 JICA Kansai
		13:30-16:30	L	D	Disaster Management and Restoration in Lifeline (Sewage)	Mr. Takayuki Fujimoto	Japan Sewage Association	
6/20	SAT		N					

6/21	SUN		N					
6/22	MON	9:30-12:00	L	B	Road Safety Counlermeasures/Road Sign Maintenance	Mr. Ryoji Kawai	Road Dep., KRDB, MLIT	SR 33 & 34 JICA Kansai
		14:30-16:30	O	O	Site Visit : Common Duct	Mr. Ryoji Kawai	Road Dep., KRDB, MLIT	Kyoto Prefecture
						Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	
6/23	TUE	9:30-12:30	L	B,D	Disaster Response, Maintenance and Management of Expressways	Mr. Keiichi Moriyama	Kansai Branch,West Expressway Company Ltd.	Mexico West
		13:30-16:30	O	D	Site Visit : Shin-Meishin Expressway	Mr. Masaki Nishioka	Kansai Branch.,West Expressway Company Ltd.	Shin-Meishin Expressway
6/24	WED	9:30-12:30	L	D	Ground Reinforcement Technology for Disaster Prevention and Miligation	Prof. Yoshihisa Miyata	Dept. of Civil & Environmental Engineering, National Defense Academy	SR 33 & 34
		13:30-16:30	O	C, D	Site Visit : Rokko Sabo Dam Hazard Map/Soil Cement Construction Method	Mr. Masakazu Fukuoka	Rokko Sabo Office, KRDB, MLIT	Rokko Sabo Office
						Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	
6/25	THU	9:00-10:00	P	C	Hazard Map	Mr. Yujiro Ogawa	BOSAI International	SR 33 & 34 JICA Kansai
		10:30-12:00			Field Survey			Aotani Area, Nada Ward, Kobe city
		13:30-16:30			Development of Hazard Map	Mr. Makoto Ikeda		SR 33&34 JICA Kansai
6/26	FRI	9:30-12:30	L	B	Water Quality Management in Japan	Prof. Hiroshi Tsuno	Faculty of Human Environment, Osaka Sangyo University	SR 33&34 JICA Kansai
		14:30-16:30	O	A, D	Recovery from Earthquake(Visit to Fukae Earthquake Museum for Structures)	Mr. Motohiko Nishibayashi	Hanshin Express Way	Fukae Earthquake Museum
6/27	SAT	9:30-12:30	L	D	Restoration for Native Forest in Construction Sites	Mr. Yoshitake Takano	International Association For Restoration of Native Forest	SR 33&34 JICA Kansai
		PM	N					
6/28	SUN		N					
6/29	MON	9:30-16:30	L	A,B,C,D	Japanese Ports and Harbors	TBA	Ports and Airports Dept., KRDB, MLIT	SR 33&34 JICA Kansai
6/30	TUE	10:00-12:00	L	B	Restoration of Quake Hit Kobe Port Facilities	Mr. Hidetoshi Wada	Technical Dept. Kobe Port Authority	Kobe City Hall
		13:00-16:30	L/O	B,D	Observation of Kobe Port	Mr. Tatsuya Oue	Kobe Ports & Harbors Office, KRDB, MLIT	Kobe Ports & Harbors Office, KRDB, MLIT
7/1	WED	9:30-12:30	L/O	C,D	Information and Telecommunication at a Time of Disaster (Hardware Application)	Mr. Junichi Nakamura	Planning Dpt., KRDB, MLIT	SR 33 &34, JICA Kansai
		13:30-17:30		E	Action Development & Reflection			

					Study Trip to Akashi Kaikyo Bridge & Hiroshima			
7/2	THU	9:30-14:45	O	D	JICA Kansai(Bus)→Akashi Kaikyo Bridge(Bus) → Nojima Fault Museum(Bus)→Nishiakashi Station(Hikari 473) →Himeji Station(Sakura 567) →Hiroshima Station (Hiroden) → Chudenmae Station→Hotel	Mr. Kazuo Endo	Planning Div. Honshu-Shikoku Bridge Expressway Co., Ltd.	Akashi Kaikyo Bridge and Other Sites
7/3	FRI	8:45-12:00	O	D	Site Visit : Sabo Sites in Hiroshima	Mr. Yasuyuki Saito	Sabo Div., Construction Dep., Hiroshima Prefecture	Hiroshima Prefecture
		13:00-14:20	O		Visit to Hiroshima Peace Memorial Museum			Peace Memorial Museum
					Museum(Bus)→Hiroshima Station(Sakura556) →Shinkobe Station (JICA Bus)→JICA Kansai			
7/4	SAT		N					
7/5	SUN		N					
7/6	MON	9:30-10:50	L	B	Introduction to Asian Disaster Reduction Center	Mr. Kiyoshi Natori	Asian Disaster Reduction Center (ADRC)	Asian Disaster Reduction Center (ADRC)
		10:30-12:30	O	D	Kobe Government Integral Building of Disaster Management	Mr. Wataru Saito	KRDB, MLIT	Kobe Gov., Integral Building of Disaster Management
		13:30-16:30	L	A, D	Unpaved Roads Maintenance in Developing Countries	Prof. Makoto Kimura	Graduate School of Engineering, Kyoto University	SR 33&34 JICA Kansai
7/7	TUE							
		10:00-11:30	L	B	Yamato River Improvement Project	Mr. Tatuke	Yamato River Office, KRDB, MLIT	Yamato River Office, KRDB, MLIT
		12:30-14:30	O	D	Kamenose Landslide Prevention Project Site	Mr. Yoshihiro Tatsuke	Yamato River Office, KRDB, MLIT	Kamenose

Study Trip to Shin-Fuji & Ishikawa								
7/8	WED				Hotel Granvia→Osaka Station→Shinosaka st.(Hikarai 462)→Hamamatsu st.(Kodama 644)→Sin-Fuji st.(Bus)→Fuji Sabo Office			
		13:00-14:00	L	B, C, D	Fuji Sabo	Mr. Keiji Yoshida	Fuji Sabo Office, Chubu Regional Development Bureau, MLIT	Fuji Sabo Office, CRDB
		14:00-16:30	O	B, C, D	Site Visit :Fuji Sabo Project Sites			
						Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	
7/9	THU				Hotel(Bus)→Mr. Fuji (Bus)→Mishima st.(Kodama 654)→Takyo st.(Kagayaki 511)→Kanazawa st.			
		10:30-12:30	O	B,C,D	Site Observation: Fuji Sabo Project Sites	Mr. Keiji Yoshida	Fuji Sabo Office, Chubu Regional Development Bureau, MLIT	Fuji Sabo Office, CRDB
7/10	FRI	9:00-10:00-	O		Visit to Kenrokuen			Kenrokuen, Ishikawa Prefecture
		10:30-11:30	L	B	Mitigation Project of Seashore Erosion along Ishikawa Coast	Mr. Shingo Uchibori	Kanazawa Office, River & National Highway, Hokuriku Regional Development Bureau, MLIT	Kanazawa Office, River & National Highway, HRDB
		12:0-15:00	O	D	Site Visit : Project Sites of Seashore Erosion			Coastal Areas of Ishikawa Prefecture
						Mr. Takefumi Baba	Public Association for Construction Services, Kinki Region (CSKR)	
					Kanagawa Sea Coast (Bus)→Kagaonsen st.(Thunderbird32)→Osaka st. →Noda st.(JICA Bus)→JICA Kansai			
7/11	SAT		N					
7/12	SUN		N					
7/13	MON	9:30-16:30	P	E	Action Plan Preparation			SR 35, JICA Kansai
7/14	TUE	9:30-16:30	P	E	Action Plan Preparation	Mr. Okino Mr. Kon Mr. Aoshima Ms. Yamashita	Kansai Mini Wings	SR 35 & 36, JICA Kansai
7/15	WED		P	E	Action Plan Submission			JICA Kansai
7/16	THU	10:00-16:00	P	E	Action Plan Presentation	Mr. Shingo Tamita	Program Division 2, JICA Kansai	SR 42, JICA Kansai
						Mr. Takefumi Baba	Public Association for Construction Services in Kinki Region(C.S.K.R)	
						Mr. Okino Mr. Kon Mr. Aoshima Mr. Yamashita	Kansai Mini Wings	
						TBA	KRDB, MLIT	
7/17	FRI	10:30-11:30			Evaluation Meeting	Mr. Shingo Tomita	Prgrame Division 2, JICA Kansai	OR 1&2 JICA Kansai
		11:30-12:00			Closing Ceremony	Mr. Yasunori Onishi	Director General, JICA Kansai	BR JICA Kansai
						Mr. Toshiharu Fujiwara	Planning Dept., KRDB, MLIT	
		12:00-13:00			Farewell Party			OR 1&2 JICA Kansai
7/18	SAT				Departure from Japan			

* Schedule is subject to change.

Expected Module Outcome

Module A: To understand the similarities and differences of the feature of natural disaster between the participant's country and Japan.

Module B: To understand the national, prefectural and municipal government policies, plans and measures in Japan

Module C: To understand non-structural measures such as weather forecast, early warning system, information sharing system, etc.

Module D: To understand structural measures such as the engineering techniques for disaster prevention, mitigation and rehabilitation for infrastructure(River, Road and Port) against various natural disasters in Japan

Module E: To prepare Action Plan and propose the applicable technics/knowledge to participant's country or organization

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, training programs, JOCV programs, etc.

Within this wide range of programs, Training 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 and 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

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