



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

GENERAL INFORMATION ON

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

**課題別研修「インフラ施設（河川・道路・港湾）災害対策とマネジメント」
JFY 2021**

Course No. 202003281J001

Online Course Period: From January 17th, 2022 to February 28th, 2022

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

JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, stated that *"In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together."* We believe that this 'Knowledge Co-Creation Program' will serve as a foundation of mutual learning process.

I. Concept

Background

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

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

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

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

Japan has suffered from severe natural disasters, learned from the past and dealt with the disaster risk reduction both on “hardware” and “software” such as development of legal and administrative systems, putting disaster risk reduction and prevention 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 Risk Reduction and Management on Infrastructure (River, Road and Port)” is designed for civil engineers who are in charge of the maintenance and management of the public engineering facilities in developing countries. The program aims to share the various efforts such as the way to reduce the damage on important public infrastructures from natural disasters (flood, earthquake, tsunami and sediment related disasters) and disaster recovery based on the Japan’s experiences, leading to the improved disaster risk reduction, prevention, mitigation and restoration for infrastructure in participating organizations.

Sustainable Development Goals (SDGs)

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



For what?

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

For whom?

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

How?

Participants shall have opportunities to obtain and expand their knowledge on disaster risk reduction / prevention / rehabilitation systems and special engineering methods for infrastructure that are implemented in Japan through online self-study, online face to face session, review session, discussion, etc.

Participants are going to formulate Action Plan describing what the participant will do after this program based on the knowledge and ideas acquired and discussed from this online program.

II. Description

1. Title (Course No.): Disaster Risk Reduction and Management on Infrastructure (River, Road and Port) (202003281J001)

2. Course Period

From January 17th, 2022 to February 28th, 2022

3. Target Regions or Countries

Algeria, Chile, Indonesia, Kenya, Pakistan, Saint Vincent and the Grenadines, Timor-Leste

[Online sessions]

Online sessions using Web Conference System will be scheduled. Participants will be separated into two groups as following.

*Program schedule will be shared to the accepted participants after the Notice of Acceptance.

Group A:

Japan: 17:00-19:00

Indonesia (-2h) 15:00-17:00

Pakistan (-4h) 13:00-17:00

Kenya (-6h) 11:00-13:00

Algeria (-8h) 09:00-11:00

Group B:

Japan: 08:30-10:30

Timor-Leste ($\pm 0h$) 08:30-10:30

Chile (-12h) 19:30-21:30 (day before)

Saint Vincent and the Grenadines (-13h) 20:30-22:30 (day before)

4. Eligible / Target Organizations and Participants

(1) Target Organizations:

This program is designed for governmental organizations in charge of disaster risk reduction, 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)

8 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 reduction, prevention, mitigation, preparedness and rehabilitation for infrastructure (river, road and port), and formulate Action Plan. Action Plan is to describe what the participants will do after completing this program based on the knowledge and ideas acquired through this program.

8. Overall Goal

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

Submission of one-page reports of each lectures/videos and Action Plan is essential to complete this program.

9. Expected Module Output and Contents:

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

given below (Note: subject to change).

(1) Preliminary Phase before Online Program starts (to January 16th, 2022) <i>Participating organizations are required to make preparation for the program in the respective countries.</i>		
Activities	Preparation and submission of Job Report and Basic Information Matrix (As for the details, please see ANNEX 1)	
(2) Core Phase of Online Program (From January 17th, 2022 to February 28th, 2022)		
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 sharing (2) Natural disasters in Japan, Natural disasters and its analysis in each country (3) Transition of disaster risk reduction technologies in Japan	<On- demand (Online Self-Study)> <Online Interactive Session (Review session using Web Conference System)>
 To understand the national and prefectural governmental policies, plans and measures on Disaster Risk Reduction (DRR) in Japan.	(1) Disaster management policies/plans/measures at different levels (2) Earthquake disaster prevention, mitigation and restoration of lifeline systems (3) Disaster assessment	<On- demand (Online Self-Study)> <Online Interactive Session (Review session using Web Conference System)>
<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	<On- demand (Online Self-Study)> <Online Interactive Session (Review session using Web Conference System)>

<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 -River improvement (River & Dam) -Underground Rivers and Regulating Reservoirs</p> <p>(2) “Sabo” (Erosion and Sediment Control) works, Landslide countermeasures</p> <p>(3) Road works</p> <p>(4) Port facilities</p> <p>(5) Emergency Restoration Works</p>	<p><On- demand (Online Self-Study)></p> <p><Online Interactive Session (Review session using Web Conference System)></p>
<p><E> To formulate / present Action Plan and propose applicable techniques / knowledge to participating organizations.</p>	<p>(1) Formulation of Action Plan</p> <p>(2) Presentation of Action Plan</p>	<p><Online Interactive Session (Consultation of formulating Action Plan, Presentation & Discussion using Web Conference System) ></p>
<p>(3) Finalization Phase in a participant’s home country (from March 1st, 2022)</p>		
Expected Module Output	Activities	
To implement the Action Plan	Dissemination, finalization and implementation of the Action plan in the participant’s country	

* Methodology of this Program are below;

<On- demand (Online Self-Study)>

-Viewing of Pre-Recorded Lecture Video.

-Web-based Q&A Consultation.

<Online Interactive Session>

- Review session using Web Conference System

- Consultation of formulating Action Plan

- Presentation & Discussion using Web Conference System.

● During Online Program, you are supposed to (subject to change):

- take approximately 20 on-demand lectures (30-45 minutes/each) and watch approximately 20 videos of the actual sites (5-30 minutes/each),
- join approximately 10 online sessions (1~2 hours)*,
- submit one-page reports of each lectures/sessions and Action Plan

*Among the approximately 10 online sessions, 2 dates are decided at this moment as below. Please check the time in each country on P4.

1. January 17th ; Course Orientation

2. February 28th ; Action Plan Presentation session

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

III. Eligibility and Procedures

1. Expectations for the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to utilize the program for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the program to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.

2. Nominee Qualifications:

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

(1) Essential Qualifications

1) Current Duties & Experience in the relevant field:

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

2) Educational Background:

University graduates or equivalent in the area of civil engineering.

3) English Language Qualification:

Language: have a competent command of English which is equal to TOEFL iBT 80 or more (This training program includes active participation in discussions, which requires HIGH competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC, etc., if possible.)

4) Health: must be in good health to participate in the program.

5) Technical Requirements for the Online Program (Computer)

Technology Proficiency:

- Basic computer skills such as, sending/receiving e-mail with attachments, and using a web browser.
- This program may be delivered using JICA-VAN(Online learning system) and the following services; Web Conferences (Ex. Zoom, Webex, MS Teams), Cloud Storage (Ex. Google Drive, Gigapod), and YouTube.

Internet Connection:

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

*In principle internet access charge incurred for this course shall be borne by

you/your organization.

<Minimum Requirement>

Hardware:

- Regular access to a computer, either from your home or from your office.
- Operating System: Windows or Mac OS (Updated version is preferred).
- Processor: Intel i3 or equivalent; 2GHs or higher
- Memory: 2GB of RAM or higher
- Hard Drive Space: 2GB free disk space
- Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)

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

Hardware and Software which may be required:

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

6) Participation in online programs and submission of assignments

Participation in online programs and submission of various assignments (one-page reports of each lectures/videos and Action Plan) is an essential requirement for the completion of the program.

(2) Recommended Qualifications

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

3. Required Documents for Application:

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

(2) Photocopy of passport or ID: For identification of the participants, passport or other identifications should be submitted. Photocopy should include Name, Date of Birth, Nationality, Sex, Passport/ID number and Expire 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 confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at **the JICA Center in JAPAN by November**

30th, 2021)

(2) Selection:

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance:

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than December 13th, 2021**.

5. Document to be submitted by accepted participants:

Accepted participants should submit “Basic Information Matrix” and “Job Report” by e-mail by **December 23rd, 2021**. As for details, please see ANNEX 1.

6. Conditions for participation:

The participants of KCCP required.

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to record, or share the online contents / URL with others without JICA's permission.
- (4) to comply with the use conditions of copyrighted works by each copyright holder, when using texts and other materials distributed for KCCP.

IV. Administrative Arrangements

1. Organizer(JICA Center in Japan):

(1) Center: JICA Kansai Center (JICA Kansai)

(2) Program Officer: Ms. UDA Ayaka (Uda.Ayaka.2@jica.go.jp) and Ms. YOSHIDA Nozomi (Yoshida.Nozomi@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/index.html> (Japanese)

V. Other Information

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

ANNEX 1:

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

Accepted participants are required to submit <A> and by December 23rd, 2021 to Uda.Ayaka.2@jica.go.jp (Ms. Ayaka UDA)

< A > Basic Information Matrix

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

< B > Job Report

(a) Style

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

(b) Language : English

Basic Information Matrix

【1】インフラ施設の自然災害に関する情報 Information on Disaster for Public Works		
1-1-1 主な地理・地質条件 Geographic & Geological conditions		
1-1-2 気候区分、年間降水量、時間最大降雨量 Climatic Division, Annual Rainfall, Peak Rainfall per 1 hour	気候区分 Climatic Division	
	年間降水量 Annual Rainfall	
	時間最大降雨量 Peak Rainfall per 1 hour	
1-1-3-(a) 水文観測の統計データの有無（雨量、水位、潮位について） Existence of Hydrological Observation Statistical Data (Please select "✓" if the observation is carried out, or "X" if not.)	雨量 Rainfall	
	水位 Water Level	
	潮位 Tide Level	
1-1-3-(b) 水文観測機関からインフラ担当機関への情報共有の有無 Existence of sharing information system from the hydrological observation to the organization in charge of infrastructure (Please select "✓" if such system exists, or "X" if not)		
1-1-3-(c) 水文観測機関から市民への気象警報情報、災害情報（地震、津波、土砂崩れ・洪水・火山など）の情報共有の有無 Existence of disaster related information sharing system from the hydrological observation to citizens. (Disaster related information : Weather warning information and information regards to natural disasters such as earthquake, tidal wave, tsunami, landslide, flood, volcanic activity, etc.) (Please select "✓" if the system is existed, or "X" if not)	気象警報情報 Weather warning information	
	災害情報 Disaster related information	
	Earthquake	
	Tidal wave	
	Tsunami	
	Landslide	
	Flood	
	Volcanic Activity	
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:

(Reference) The following is the schedule of the previous program.
The schedule of 2021 is subject to change .

One program is going to be implemented in 2021.

Course Period(the 1st Program): January 12th, 2021 ~ February 12th, 2021	
Lecture No.	
L0-1	Program Orientation
L0-2	Course Orientation
L1	Natural Environment Surrounding Japan
L2	River Improvement in Japan
L3	Natural Disasters in Kinki Region
L4	Changes in Flood Control Projects in the Kinki Region (Yodo River and Yamato River)
L5	Disaster Resilient Roads
L6	Disaster Restoration of Port and Harbor Facilities at Port of Kobe
L7	Local Disaster Management and Disaster Reduction System for Tsunami Disaster
Submitting One-minute Papers(No.L1-L7) by Jan 17th	
L8	Infrastructure Development and Japan's ODA, Session 1
L9	Infrastructure Development and Japan's ODA, Session 2
L10	Osaka Prefectural Disaster Management Plan, Flood Fighting Practice in Osaka Prefecture,
L11	Introduction to Disaster Management Technology in Japan
L12	Response to Disasters by District Meteorological Observatory (Weather Forecast)
L13	Response to Disasters by District Meteorological Observatory (Earthquake)
L14	Information and Telecommunication for Disaster(Hardware)
L15	Flood Forecasting Model Outline
(Participants) Submit One-minute Papers(No.L8-L15) by Jan 26th	
L16	Disaster Restoration (Disaster Assessment)
L17	Road Slope Disaster Management in Japan
L18	Earthquake Disaster Prevention, Mitigation and Restoration System for Lifeline
L19	Mountain Road: Countermeasures for Rock Fall
L20	Role of SABO Works and Technology of Countermeasures for Sediment Disasters
L21	Unpaved Roads Maintenance in Developing Countries
L22	Restoration for Native Forest in Construction Site
(Participants) Submit One-minute Papers(No.L16-L22) by Feb 4th	
(Participants) submit Final Report by Feb 4th	
	Final Evaluation movie

Course Period (the 2nd Program): September 1st, 2021 ~ October 8th, 2021	
Video No.	
V1	JICA Orientation
V2	Course Orientation
V3	Introduction of the Kinki Regional Development Bureau
V4	The ABCs of PCM Unit2
V5	The ABCs of PCM Unit3
Online Session	Re-examination problems based on the identified issues (Final Report) of your organization
	Presentation of identified project for Action Plan (Selected project)

V6	Building a Flood-Resilient Nation
V7	Outline of the Amagase Dam Redevelopment Project
V8	Redevelopment of the Amagase Dam
V9	Introduction of the Comprehensive Flood Control Measures Project in Neyagawa River Basin
V10	Underground River/Underground Dam (1)
V11	Underground River/Underground Dam (2)
V12	Comprehensive Flood Control Measures
V13	Tsunami Warning System
V14	Pioneering Disaster Technology - Eq. Early Warning System
V15	Sabo Dams and Grating Crib Works
V16	The Akashi-Kaikyo Bridge (Introduction of the construction and maintenance technologies at the bridge)
Online Session	Video viewing V15, V16 / Reviewing session of V6 - V14 / Q&A session
V17	Flap Gate
V18	Breakwater
V19	Caisson installation work
V20	Sand Compaction Pile Method
V21	Extension Work of Container Terminal Quay by Jacket Method(Crane ship, precise installation, shortened construction period)
V22	Constructing a Coastal Revetment that Prevents Sediment from Flowing out and Allows only Water to Pass through
V23	Super-large Crane Vessel to Install "Structures to Protect the Port"
V24	What is Dredging? The Work to Protect the Safety of Ships
V25	Kobe Port Returns to Life (from the Great Hanshin-Awaji Earthquake Disaster)
V26	Sabo Dam
V27	Sabo Dam Model (Experimental model)
V28	Emergency Temporary Bridge Installation Drill
Online Session	Video viewing V25-V28 / Reviewing session of V17 - V24 / Q&A session
V29	Driftwood Stopper, Measures to Prevent Bank Erosion (Groin works)
V30	Tide Gate and Retarding Basin
V31	Tide Gate, Tide Iron Gate and Inland Lock
V32	Kema Drainage Pumping Station
V33	Tide Iron Gate Operation Drill
Online Session	On-site filmed video viewing ① with Expertise (Katsuragawa & Arashiyama, Kyoto) V29-33
V34	On-site filmed video viewing ② with Expertise Tsunami Evacuation Towers, etc.
Online Session	Reviewing session (General questions on technology covering Real Time sessions + additional questions to experts)
	Unnoticed technology/Different viewpoints - Photo presentation by an ex-participant
	(1) AP Guidance by KMWS (AP 1st draft)
	(2) AP Guidance by KMWS (AP 2nd draft)
	Action Plan Presentation (Shared by all participants)
	Closing ceremony

*Video length; 2~10 minutes in most cases

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs is being customized by the different target organizations to address the specific needs, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has

developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



CORRESPONDENCE

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