



Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

DISASTER MANAGEMENT FOR LANDSLIDE AND SEDIMENT-RELATED DISASTERS

(TRIGGERED BY HEAVY RAINFALL, EARTHQUAKE AND VOLCANIC ACTIVITY)

課題別研修「土砂災害防止マネジメント
(豪雨、地震、火山噴火起因)」

JFY 2016

NO. J16-04387 / ID. 1684481

Course Period in Japan: From October 2, 2016 to December 10, 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 Program (KCCP)' 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

Extreme events of weather and climate are increasing in the frequency and intensity around the world. The modern society exposes to a number of such disasters as landslide and flood due to intensive precipitation at short times and huge tropical cyclone.

Adding to this, earthquakes and volcanic eruptions bring devastating damage to various area of the world every year.

On the other hand, the population of urban and its surrounding area have increased, and many of them live in the high potential area of landslide and slope failure.

The human and economic losses by sediment-related disasters have increased year by year because of the above-mentioned social factor together with extreme natural phenomena.

This program aims to ensure capacity development of administrative organizations related to sediment-related disasters prevention/mitigation in its management and programming of structural and non-structural countermeasures.

For what?

This program aims at prevention/mitigation of sediment-related disasters triggered by heavy rainfall, earthquake and volcanic activity through strengthening of participant's capability on planning of effective countermeasures.

For whom?

This program is designated for technology-based government officials such as civil engineer and geologist who are engaging in the development of countermeasures to prevent and /or mitigate the sediment-related disasters caused by heavy rainfall, earthquake and volcanic activity.

Educator and researcher in educational and academic research institutions such as universities are not qualified as the applicant for this program.

How?

This program consists of 4 components, i.e. (i)general knowledge on administration and activity of disaster prevention/mitigation, (ii)basic and applied technology on countermeasures of sediment-related disasters, (iii)field study of disasters and their countermeasures induced by heavy rain, earthquake and volcanic activity and (iv)exercise on issues related to sediment-related disaster prevention/mitigation.

Participants will be required to make a mid-term report to summarize what they learned in the first half of the training program and a final report in order to turn fully the outcome of the program to routine works of themselves.

II. Description

1. Title (J-No.)

Disaster Management for Landslide and Sediment-related Disasters (Triggered by Heavy Rainfall, Earthquake and Volcanic Activity) (J1604387)

2. Course Period in JAPAN

October 2 to December 10, 2016

3. Target Regions or Countries

Armenia, Azerbaijan, Brazil, Chile, Dominica, Ecuador, El Salvador, Mauritius, Myanmar, Nepal, Pakistan, Papua New Guinea, Peru, Philippines, Saint Vincent and the Grenadines, Sri Lanka, Trinidad and Tobago, Turkey and Viet Nam

4. Eligible / Target Organization

Organizations involved in sediment-related disaster prevention/mitigation activities are the target of this program. Educational and academic research institutions such as universities are outside of the scope of this program

5. Course Capacity (Upper limit of Participants)

20 participants

6. Language to be used in this program

English

7. Course Objective

Participants of this program are expected to improve their technology on comprehensive sediment management as well as enhance their capacity on making countermeasures to prevent and/or mitigate the sediment-related disaster caused by heavy rainfall, earthquake and volcanic activity.

8. Overall Goal

The quality of countermeasures to sediment-related disaster prevention/mitigation will be improved in participating countries.

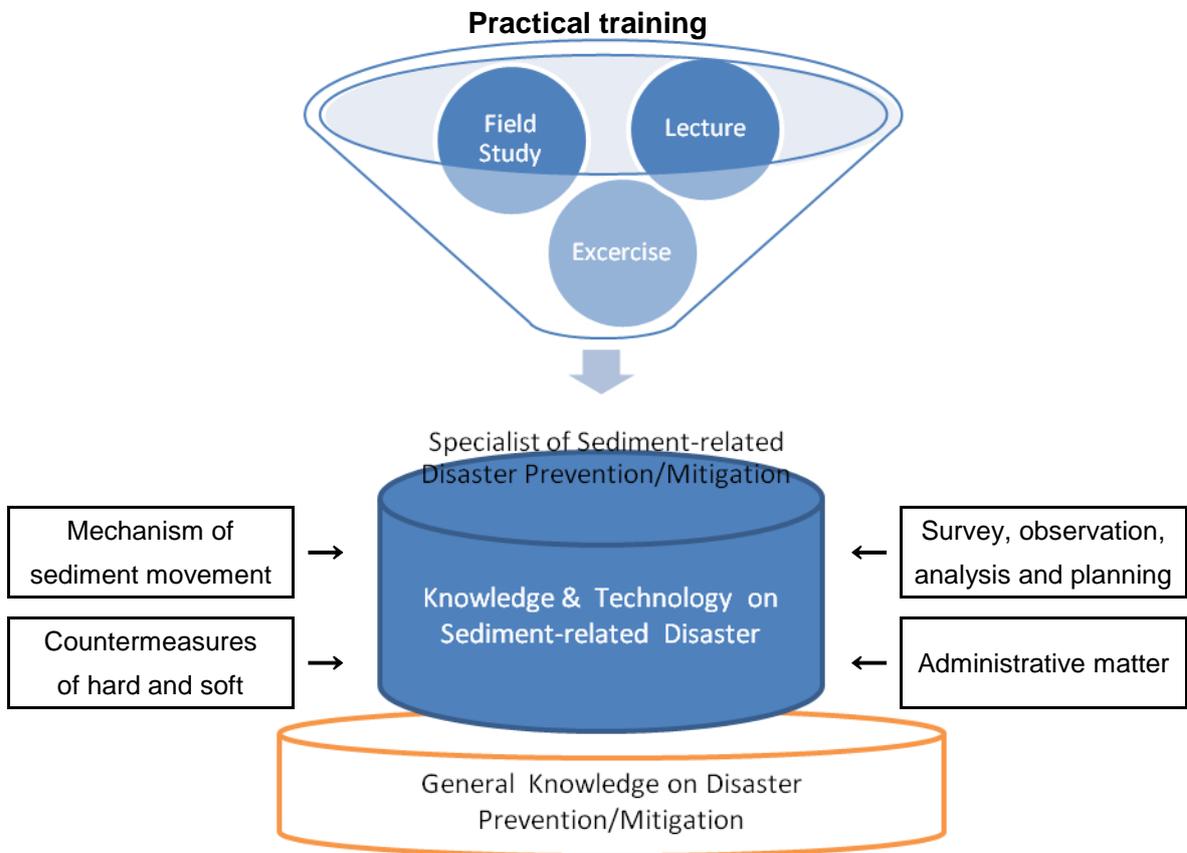
9. Expected Module Output and Contents

This program consists of the following components.

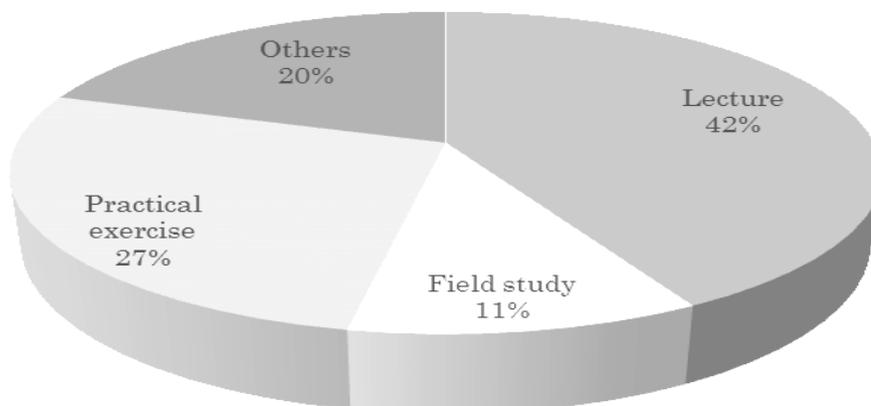
Expected Module Output	Subjects/Agendas	Methodology
<p>1. General knowledge on administration and activity of disaster prevention/mitigation:</p> <p>To understand and be able to explain:</p> <p>(1) general knowledge of disaster prevention/mitigation activities</p> <p>(2) administration of disaster management in consideration of 'Self Help', 'Mutual Help' and 'Public Help'.</p>	<p>General knowledge of disaster prevention/mitigation which are necessary for officers engaged in disaster prevention/mitigation program</p> <ul style="list-style-type: none"> - Lecture: <ul style="list-style-type: none"> ▪ Disaster administration in Japan ▪ Role of local government in disaster prevention ▪ Education for disaster prevention ▪ Civil society and disaster prevention activities etc. - Field study: <ul style="list-style-type: none"> ▪ Institutions and facilities for better understanding of the contents of lecture 	<p>Lecture and field study</p>

<p>2. Basic and applied technology on countermeasures of sediment-related disasters:</p> <p>To understand and be able to explain:</p> <p>(1) basic and applied knowledge of erosion and sediment control engineering</p> <p>(2) basic mechanism of sediment-related disaster such as debris flow, landslide etc.</p> <p>(3) structural and non-structural measures for prevention/mitigation of sediment-related disaster</p>	<p>- Lecture: <Basic and applied knowledge of Sabo engineering></p> <ul style="list-style-type: none"> • Introduction to Sabo works • Volcanic activities and sediment-related disasters • Prediction of sediment-related disasters and information transmission • Applied hydrology • Mechanism of debris-mud flow • Mechanism of landslide • Designation of restricted area and land use • Utilization of field materials • Countermeasures of natural dam etc. <p><Structural measures></p> <ul style="list-style-type: none"> • Sabo basic plan for debris flow and woody debris • Sabo planning • Design of Sabo dam etc. <p><Non-structural measures></p> <ul style="list-style-type: none"> • Slope stabilization and revegetation works • Crisis management on sediment-related disaster etc. <p>- Field study: Institutions and facilities for better understanding of the contents of lecture</p>	<p>Lecture and Field study</p>
<p>3. Exercise:</p> <p>To understand and be able to explain practical countermeasures on sediment-related disaster Prevention/mitigation</p>	<p>- Exercise:</p> <ul style="list-style-type: none"> • Planning and design of Sabo facilities • Practical method of field survey on sediment-related disaster • Hazard mapping and setting a soil water index 	<p>Practical exercise</p>

<Structure of the program>



<Component of the program>



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 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) Applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in the following section(III-2).

2. Nominee Qualifications

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

(1) Essential Qualifications

- 1) Current Duties:
be technology-based government officials such as civil engineer and geological engineer who are engaging in the development of countermeasures to prevent and /or mitigate the sediment-related disasters caused by heavy rainfall, earthquake and volcanic activity.
- 2) Experience in the relevant field:
have more than 3 years' experience in the field of sediment-related disaster prevention/mitigation program
- 3) Educational Background:
be a graduate of university
- 4) Language:
have a competent command of spoken and written English. This workshop includes active participation in discussions, which requires high competence of English ability.
- 5) 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 (As this training program includes hard field work, it will be extremely difficult for pregnant women to participate. Therefore, from the aspect of maternal protection, there is a difficulty in acceptance of pregnant applicants).

(2) Recommendable Qualifications

- 1) Age: be under forty five (45) years of age (in principle)

3. Required Documents for Application

(1) Application Form and Supplemental Report:

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 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. Procedures for Application and Selection :

(1) Submission of the Application Documents:

Closing date for Application Form and Supplemental Report on the format attached in Annex 1 to the JICA Center in Japan : **July 22(Friday), 2016**

Note : After receiving applications, the JICA office (or the Embassy of Japan) will send them to the JICA Center in JAPAN. Therefore **please confirm the closing date set by the respective country's JICA office or Embassy of Japan of your country** to meet the final date in Japan.

(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 August 23(Tuesday), 2016.**

5. Document(s) to be submitted by accepted participants only:

Country Report -- to be submitted **not later than September 12(Monday), 2016**

Before coming to Japan, only accepted participants are required to prepare a Country Report on the format attached in Annex 2 ,and submit it by e-mail <ticttee@jica.go.jp>.

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 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.

Note: This training course includes field study in mountainous areas. Therefore, accepted participants are recommended to bring clothes and shoes suitable for walking and exercise.

IV. Administrative Arrangements

1. Organizer:

- (1) **Name:** JICA Tokyo International Center (JICA Tokyo)
Economic Infrastructure Development and Environment Division
- (2) **Contact:** Narihito FUJISAWA (Mr.) tictree@jica.go.jp

2. Implementing Partner:

- (1) **Name:** Sabo & Landslide Technical Center (STC)
- (2) **URL:** www.stc.or.jp
- (3) **Remark:** Sabo & Landslide Technical Center is a public service foundation authorized by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT). The main function is consulting service on sabo related works for the government, and R&D in the field of sabo engineering.

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 Tokyo International Center (JICA TOKYO) ¹ Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan TEL: 81-3-3485-7051 FAX: 81-3-3485-7904 (where "81" is the country code for Japan, and "3" is the local area code)
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If there is no vacancy at JICA TOKYO, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of TIC at its URL, <http://www.jica.go.jp/english/contact/pdf/tic.pdf>

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)
 - (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 Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

VI. ANNEX:

<For all the applicants>

1. Supplemental Report (ANNEX 1) : **Deadline : July 22(Friday), 2016**

The purpose of application of the applying organization and expectation on this program of the nominee will be written in “Application Form for the JICA Training and Dialogue Program”.

In addition to this information, each nominee is requested to attach a Supplemental Report on the following themes to the Application Form. The report should be typewritten in English on A4 size paper and 1~2 pages in length with free format. Please be specific as much as possible.

The report will be used for screening of the nominees.

Outline of Supplemental Report

Supplemental Report	
1. Introduction of themselves	
(1) Name	Make sure to write your name and country.
(2) Country	
(3) Organization	
(4) Position/Title	
2. Description of duty of themselves and organization / department / division / section that they belong together with the organization chart	
3. Administrative structure, relationship and their roles/duties between organizations related to the sediment-related disaster management which includes prevention/ mitigation, observation, warning, evacuation, disaster relief etc. of the government as a whole.	

<For accepted participants only>

2. Country Report (ANNEX 2) : **Deadline: September 12(Monday), 2016**

Purpose of the Country Report

The Country Report is basic and essential information for the Japanese lecturers as well as the other participants of this program in order to understand followings as the background information.

- i) the present situation and problem to be solved of participating countries on sediment-related disaster prevention/mitigation
- ii) the duties of the participants themselves and their offices where they belong.

Without better understanding of each other, the effective and fruitful training is hardly expected.

The Country Report should be typewritten in double space on A4 size paper and 10~15 pages in length including charts, figures, maps and photographs.

Participant will be required to make a presentation of his/her Country Report during the seminar in the following manner.

- (1) Each participant has about 10 minutes (including Q&A session) for the presentation of the Country Report.
- (2) The presentation session of Country Reports will be held in early stages of the Program.

Outline of Country Report

Country Report

The contents of the Country Report with Attached Paper should cover the following topics:

- Introduction of themselves (Name, Country, Organization, Position/Title)
- Description of duty of themselves and organization/department/division/section that they belong together with the organization chart
- Administrative structure, relationship and their roles/duties between organizations related to the sediment-related disaster management which includes prevention/mitigation, observation, warning, evacuation, disaster relief etc. of the government as a whole
- Description of debris flow and landslide hazards, and structural/non-structural countermeasures which have been taken in respective countries
- Present situation and problems to be solved of the sediment-related disaster management in respective countries
- Please fill in and attach the questionnaire (Pease see the next page).

(Questionnaire)

Public and private organizations in charge of various activities related to the sediment disaster

※ ① Please describe all organizations of every particular item, if there are several organizations in charge.

② If no organization is in charge of the activity, please describe 'none'.

Activity	Organization of Central Government	Organization of Local Government	Private sector including NPO/NGO
Prevention Measures (Structural Measures) for Sediment Disaster			
Observation/ Monitoring (Soil Movement)			
Observation/ Monitoring (Weather)			
Warning			
Evacuation			
Disaster Relief			
Disaster Education			

NOTE:

1. Those who are accepted to participate in this program will make presentation of their Country Reports at the beginning of the program. For this purpose, participants are highly recommended to bring visual materials for their presentation, i.e. Power Point etc.
2. It is also highly recommended to bring precipitation records (hourly, daily) and topographic maps of the disaster affected area. The participant who brings these data along with him/her is able to plan and design countermeasures of his/her own country making use of these data in the exercise of this program.

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 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 the Embassy of Japan. Further, address correspondence to:

JICA Tokyo International Center (JICA TOKYO)
Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan
TEL: +81-3-3485-7051 FAX: +81-3-3485-7904