

[Online] Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

ROAD MAINTENANCE (B) 課題別研修「道路維持管理(B)」 JFY 2020

NO. 201905854-J001 Course Period (online) : From February 11th to March 5th 2021

"In the context of the COVID-19 pandemic, please note that there is still a possibility the course period will be changed, shortened, or the course itself will be cancelled."

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 is 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

There is no doubt that the improvement of roads is essential for national economic development. Although developing countries have been rapidly proceeding with the improvement of urban roads, using large national budgets and receiving development assistance from foreign countries, inappropriate management and maintenance due to financial difficulties and lack of technology has continuously caused early damage, which in turn has caused excessive traffic congestion and accidents. To manage and maintain roads appropriately, it is essential to regard roads as national assets, grasp and assess the conditions of road structures, predict the financial condition, and consider what measures to carry out and when and where to carry them out. Moreover, it is necessary to manage roads efficiently according to plan within a limited budget (asset management). Appropriate asset management leads to efficient, effective, and appropriate distribution of taxes collected from the people and provision of better public services. In addition, it becomes possible to use foreign countries' assistance most effectively.

Sapporo City experienced rapid urbanization. To solve the problem of managing and maintaining roads, it introduced not only the corrective-type method of "repairing damaged parts" but also the preventive method of "starting repair when damage is small and using roads as long as possible." Sapporo City has been proceeding with measures based on asset management to reduce costs. Referring to the example of Sapporo City, this training course is provided so that the participants can learn how to perceive the design/construction and preventive maintenance of roads with consideration for the management and maintenance system and lifecycle cost. This will enable them to contribute to the improvement of the management and maintenance system to ensure smooth and safe traffic flows in developing countries.

For what?

This program aims to contribute to the improvement of the road management and maintenance system to ensure comfortable and safe urban road service in the participants' countries. The participants are highly expected to actively participate in the course to propose improvement plans of the road management and maintenance system in their governments.

For whom?

This program is designed for the central and local government officials in charge of road management and maintenance.

How?

Participants shall have opportunities to learn essential knowledge and techniques for road management and maintenance systems through online lectures, observations, exercises and discussions by learning the case of Sapporo City. Each participant are required to propose an Action Plan describing what he / she is expected to do in his / her home country, making the best use of the knowledge and ideas acquired and discussed in the program.

II. Description

1. Title (No.): Road Maintenance (B) (201905854-J001)

2. Course Period Online Program Core Phase: February 11, 2021 to March 5, 2021

3. Target Regions or Countries Afghanistan, Brazil, Cambodia, Indonesia, Laos, Lebanon, Mongolia, Myanmar, Thailand, Vietnam

4. Eligible / Target Organization

This program is designed for the central and local government officials in charge of road management and maintenance.

5. Course Capacity (Upper limit of Participants): 10 participants

6. Language to be used in this program: English

7. Program Objective:

Analyzing the challenges in terms of road maintenance system, necessary and sound countermeasures are proposed with utilizing the outcomes of the training.

8. Overall Goal:

Based on the Action Plan proposed by the participants, necessary measures are taken for establishing or improving/strengthening operation and maintenance system for road maintenance and management.

9. Expected Module Output and Contents: This program consists of the following components. Details on each component are given below:

(1) Preliminary Phase (November 2020 to Jan	in a participant's home country nuary 2021)
Modules	Activities
Analyze current situation and problems on road maintenance and management system in respective country/organization	Preparation and submission of Job Report

(2) Online Program Core Ph		
(February 11 to March 5, 2021)	
Module	Subjects/Agenda	Methodology
Analyze current situation and problems on road maintenance and management system in respective country/organization	 Job Report Sharing Situation and problems analysis based on Job Report Group discussion on the M&M system of road in respective country/organization 	Online- Workshop Discussion
Understand necessary knowledge and basic techniques for road maintenance and management system through the experience of Japan and local government (including road asset management system).	 The concept of "road M/M cycle (Inspection, evaluation, planning implementation and monitoring etc." Road M/M plan, implementation system in Japan and local areas. Preventive and effective road M/M planning Road M/M works (Inspection, evaluation etc.) in Japan and local areas. 	Online- Lecture Observation Discussion
Examine the appropriate and sustainable O&M system and M/M planning of road be reference to the experiences of Japan and the other countries	 Implementation of road M/M works and countermeasure works against disaster, etc. Road construction plan to archive the effective road maintenance and management after operation 	Online- Lecture Site-visit Discussion

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Finalization Phase in a participant's home country (March 2021 to August 2021) Expected Module Output Activities - Implementation of the Action Plan -Sharing and finalizing the "Action Plan" in the participant's organization.

III. Conditions and Procedures for Application

1. Expectations for the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to 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) As this program is designed to facilitate organizations to come up with concrete solutions for their issues, participating organizations are expected to make due preparation by carrying out the activities of the Preliminary Phase described in section II -9.
- (4) Participating organizations are also expected to make the best use of the results achieved by their participants in Japan by carrying out the activities of the Finalization Phase described in section II -9.

2. Nominee Qualifications

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

Essential Qualifications

- 1) Current Duties:
 - Engineer in charge of planning, design, construction or maintenance and management of urban road in central or local government.
 - Person who is able to implement his/her Action Plan after the training course in Japan.

2) Experience in the relevant field: have more than five (5) years' practical experience including the field of road management and maintenance.

3) Educational Background: be university graduates or persons who have equivalent technical qualifications in this field.

4) Language: ideally have a competent command of spoken and written English which is equivalent to TOEFL CBT 200 or more (This program includes active participation in discussions, action plan development, thus requires good competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible).

5) Health: must be in good health, both physically and mentally.

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.

(2) Photocopy of passport: to be submitted with the application form for identification. If you do not possess your passport, you are requested to submit the other documents instead of 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: to be submitted with the Application form (Please refer ANNEX).

4. Procedure for Application and Selection :

- (1) Submitting the Application Documents:
 - Closing date for application to the JICA Center in JAPAN: <u>December 25, 2020</u> Note: 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 document(s) through due administrative procedures in the respective government, the respective country's JICA office (or Japanese Embassy) shall conduct screenings, and send the documents to the JICA Hokkaido(Sapporo). Selection shall be made by the JICA Hokkaido(Sapporo) in consultation with the organizations concerned 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 shall be made by the respective country's JICA office (or Embassy of Japan) to the respective Government by **not later than <u>January 15</u>**, <u>2021</u>.

5. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to record online lessons or use contents providing during the program without JICA's permission since all the copy right belong to JICA. Arrangement will be made for streaming the program in case of network problem.
- (4) to go to the place where the internet access is secured to attend the online program.

IV. Administrative Arrangements

1. Organizer:

(1) Name: JICA Hokkaido(Sapporo)

(2) Contact: <u>Higuchi.Kazuhiko.3@jica.go.jp</u>, <u>Yamazaki-Maiko@jica.go.jp</u>

2. Implementing Partner:

 Name: Sapporo City URL: <u>http://www.city.sapporo.jp/city/english/index.html</u>

In order to pursue a better orientation of JICA Hokkaido and the training program, please see the following video <<u>https://youtu.be/ZTw5Dtcu8o4</u>>

V. Other Information

1) Japanese culture experience program (Online) will be offered to the participants from JICA Hokkaido (Sapporo).

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

3) At the end of the course, participants are required to prepare an "Action Plan", which is an activity plan to be implemented after the training course with utilizing skills and knowledge obtained. For the convenience, JICA recommends each participant bring relevant data and reference documents which would be useful in making a well-grounded action plan.

VI. ANNEX

Job Report

Participants are requested to prepare a job report on the following issues and submit it with application form to JICA. This Report shall be used for selection of participants.

The report should be prepared in **English** and in the format of **Microsoft Power Point**, since all the participants are expected to make a short presentation online. In addition, since all the reports will be translated into Japanese in advance, your prompt submission of the report will be highly appreciated. Expected contents of the report are given below:

1. Purpose

To introduce, and share information about your situation and issues of road management with lecturers and participants.

2. INSTRUCTIONS:

1) Should be written in <u>English</u> by using such as Microsoft PowerPoint" etc. Hand-writing is unacceptable.

2) Should cover <u>ALL</u> "Items" below

<u>NOTE:</u> It is highly recommendable for participants to send PHOTOS (especially those which clearly show the problems in road conditions). Please be advised to include the detailed "PHOTOS" which clearly show the road condition or relevant materials, which will be highly useful to know the situation of road maintenance in respective country.

1. Personal information

- 1-1 Name
- 1-2 Nationality
- 1-3 Name of Organization
- 1-4 Present post (title, ToR, relevance to the training course)

1. Country Basic Information of Road Maintenance

2-1. Matters related to road administration

-Legal on the road (major legal requirements)

-Standards of the road (road width, base course, etc.)

-Road budget (percentage of the cost of new construction projects and maintenance costs)

-Each ToR of Road maintenance department in Ministry and branch office

-Exist of the plan for road construction and road maintenance and management

2-2. Matters related to road statistics

-Road extension and percentage of paving (by road type)

-Volume of major highways and traffic (by vehicle type)

2-3. On the domestic construction industry matters

-Procurement of construction materials such as asphalt and concrete

-The level of domestic construction enterprises (concerning construction contracts, the percentage of construction companies in the country including design work / construction and maintenance done by its own domestic construction companies or not such as big construction supported by aid donor)

2. Individual focus

3-1. Issues facing in your organization (Technical or Administrative aspect)

3-2. Expectation to the training program for solving the issues/problems

3-3. Theme which you would like to propose as Action Plan

Note: Please see 'What is Action Plan' below.

What is Action Plan

(1) Purpose of Action Plan:

- ① To analyze and describe problems to be solved.
- ② To identify and elaborate practical and comprehensive activities or what can be done by the participating organizations to solve the problems.

(2) Contents of Action Plan:

1 Introduction:

Please describe the reasons for choosing the subject, and also to tell us which specific information from the training you think is useful for the activities in your AP.

2 Purpose:

Please describe the purpose of your AP.

③ Target Group:

Please describe a group of people or organizations to whom your AP is targeted in order to solve the identified problems.

④ Expected Output:

Please describe specifically the output, which is expected to be seen after your AP is fulfilled.

(5) Essential Activities:

Please describe activities that are necessary in order to achieve the expected output mentioned in paragraph 4.

6 Division of Responsibilities:

Please describe the name of organization or department expected to be in charge of the activities mentioned in 5. If many people or organizations are involved, please don't forget to indicate their relationship.

⑦ Financial Resources:

Please identify the budget source for each activity with an estimated figure in US\$ or EUR.

8 Anticipated Inhibitors:

Please describe potential hurdles that are likely to arise when you carry out the activities of your AP.

9 Schedule:

Please attach a timetable for the activities mentioned in paragraph 5.

(3) Sharing of Action Plan

Towards the end of the training program, participants have opportunity to

discuss about their Action Plans. As a medium for presentation, **power-point** is recommended.

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 the Embassy of Japan. Further, address correspondence to:

JICA Hokkaido Center (Sapporo)

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