



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

**General Information on
Road Administration
課題別研修「道路行政」**

**JFY 2021
Course No. 202003181J001**

**Online Course Period:
Group A: From December 6, 2021 to December 10, 2021
Group B: From December 13, 2021 to December 17, 2021**

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) 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

Since roads are indispensable infrastructure that directly affects people's daily lives and industrial activities, there are enormous needs for road development in many of the rapidly developing countries, where "road infrastructure gap" exists between its demands and supplies.

Road development employs wide range of technology and expertise in order to plan efficient and effective road network securing traffic safety, smoothness and comfortable accessibility considering the urban/regional environment and traffic/roadside situation.

JICA therefore provides a Knowledge Co-Creation Program (KCCP) to meet the requirements of such expertise in road development from its planning phase to operation and maintenance stage.

For what?

This KCCP (hereinafter referred to as the "Program") aims to enhance the participants' technical capacities in road administration in order to contribute to the achievement of the Sustainable Development Goals (SDGs) 11 "Sustainable Cities and Communities".

For whom?

The Program targets middle-level technical officers at central or local governments or government-related organizations responsible for road administration.

How?

It consists of online lectures, exercises and discussions focusing on practical knowledge about road administration, which are indispensable to promising leaders.

During the Program, participants will make a road network plan for a certain area in the exercise and discuss it with Japanese professionals and other participants.

At the end of the Program, participants are expected to get some clues to improve their issues about road administration in respective countries. In addition, participants will establish global network with professionals who have same aspiration for sustainable development.

II. Description

1. Title (Course No.)

Road Administration (202003181J001)

2. Online Program Period

Group A: December 6 to December 10, 2021 11:00-15:00 (Japan Standard Time)

Group B: December 13 to December 17, 2021 18:00-22:00 (Japan Standard Time)

<Important Note>

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

Response to the time difference during the online program

In order to have interactive communication between lecturers and participants, Webinar sessions are planned during the online program.

All participants will be connected at the same time at the Webinar in the following time zones.

【Group A: Asia and Latin America】

Japan	11:00 to 15:00 (Japan Standard Time: JST)
Timor-Leste	11:00 to 15:00
Philippines	10:00 to 14:00
Indonesia	9:00 to 13:00
Kyrgyz	8:00 to 12:00
India	7:30 to 11:30
Ecuador	21:00 to 1:00 Program content will be followed on demand.

【Group B: Asia, Middle East and Africa】

Japan	18:00 to 22:00 (Japan Standard Time: JST)
Pakistan	14:00 to 18:00
Afghanistan	13:30 to 17:30
Iran	12:30 to 16:30
Ethiopia	12:00 to 16:00
Malawi	11:00 to 15:00
Mozambique	11:00 to 15:00
Benin	10:00 to 14:00
Liberia	9:00 to 13:00

* Fixed schedule will be shared to the accepted participants with the Notice of Acceptance.

* Above is a general guide to your local time zone. Please always check your local time before log on to the session.

3. Target Regions or Countries

Afghanistan, Benin, Ecuador, Ethiopia, India, Indonesia, Iran, Kyrgyz, Liberia, Malawi, Mozambique, Pakistan, Philippines and Timor-Leste

To be divided into 2 groups as shown below upon the time zone.

Group A: Asia and Latin America;

Ecuador, India, Indonesia, Kyrgyz, Philippines, Timor-Leste

Group B: Asia, Middle East and Africa;

Afghanistan, Benin, Ethiopia, Iran, Liberia, Malawi, Mozambique, Pakistan

4. Eligible / Target Organizations

Central and local governments or government-related organizations responsible for road administration, including planning, construction, operation and maintenance of the roads

5. Capacity (Upper limit of Participants)

15 participants

6. Language to be used in this program

English

7. Course Objective:

Capacity development of middle-level technical officers in charge of road planning, construction, operation and maintenance

8. Overall Goal

To formulate road transportation standards (design, construction, environment, traffic safety, etc.).

9. Expected Module Output

To achieve above course objective, participants are expected to;

- (1) Understand the process of road planning and points to consider thereof
- (2) Understand the effects of road development
- (3) Understand the process of road structure planning and maintenance and points to consider thereof

10. Program Structure

Preparatory Phase

August 2021 to October 2021

*After the acceptance notice, accepted participants make required preparation for the Program in the respective countries as stated in page 9, **5. Document(s) to be submitted by accepted participants.***

Core Phase

Group A: December 6 to December 10, 2021

Group B: December 13 to December 17, 2021

*Participants take part in the Core Phase of the KCCP that consist of the following four modules with expected outputs stated above in **9. Expected Module Output.***

Module 1:

Road Administration System in Japan and its challenges

Module 2:

Road Network Development

Module 3:

Road Planning (Technical Theories and Exercise)

Module 4:

Issues regarding Road Network Development Projects

11. Contents

Title
• Road Administration of Japan: Institutional framework and current topics
• Road Network Development of Japan: From despair to modern road network
• History of Road Network Development Plans of Japan
• Effects of Road Improvement on Socio-Economic Development
• Fund Source
• Formulation of Road Network Plan
• Road Administration of Japan
• Road Class and Design Standards
• Road Design
• Road Maintenance
• Land Acquisition and Resettlement

12. Tentative Schedule

【Group A: Asia and Latin America】

Day0	November, 2021	Connection Test
Day1	December 6, 2021 Program Orientation	Greetings, Confirmation of Precautions, Introduction of People Involved
	Lecture	Road Administration in Japan Institutional framework, road classification, toll road system, brief history of road network development and current topics. Lecturer: Ministry of Land, Infrastructure, Transport and Tourism
	Lecture	Road Network Development in Japan History of Road Network Development of Japan: How Japan developed its modern road network starting from the aftermath of WWII. Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Effect of Road Network Development <i>“Why road network development is necessary. What are the effects of road network development on economic growth and improvement of social welfare.”</i> Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.

	Lecture	Financing of Road Development <i>"How did you plan and secure your financial resources?"</i> Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day2	December 7, 2021 Lecture	Road Network Planning Necessity of road network plan, classification of roads, contents, process and outcome of road network planning Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Road Planning and Design 1: Flow of road planning and design, selection of road class, geometric design Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Road Planning and Design 2: Plannd traffic volume and number of lanes (road width), Road Class and Design Standard Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Road Design 3: Road Design Theory Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day3	December 8, 2021 Lecture	Road Maintenance and Management Lecturer: Dr. Motoya Yamasaki, Professor, Tokyo University of Agriculture Faculty of Regional Environment Science Department of Landscape Architecture Science
	Lecture	Land Acquisition: Resettlement, and Consensus Building with Residents Lecturer: Mr. Kenji Ogura, Director, International Projects, Hanshin Expressway Co., Ltd.
Day4	December 9, 2021 Exercise & Discussion	Exercise on Road Network Planning Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day5	December 10, 2021 Lecture	Traffic volume and congestion, other topics Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Discussion	Discussion and Knowledge Co-creation
	Closing Ceremony	Wrap-Up Session

*Please note that the schedule is tentative and subject to changes.

【Group B: Asia, Middle East and Africa】

Day0	November, 2021	Connection Test
Day1	December 13, 2021 Program Orientation	Greetings, Confirmation of Precautions, Introduction of People Involved
	Lecture	Road Administration in Japan Institutional framework, road classification, toll road system, brief history of road network development and current topics. Lecturer: Ministry of Land, Infrastructure, Transport and Tourism
	Lecture	Road Network Development in Japan History of Road Network Development of Japan: How Japan developed its modern road network starting from the aftermath of WWII. Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Effect of Road Network Development <i>“Why road network development is necessary. What are the effects of road network development on economic growth and improvement of social welfare.”</i> Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Financing of Road Development <i>“How did you plan and secure your financial resources?”</i> Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day2	December 14, 2021 Lecture	Road Network Planning Necessity of road network plan, classification of roads, contents, process and outcome of road network planning Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Road Planning and Design 1: Flow of road planning and design, selection of road class, geometric design Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.

	Lecture	Road Planning and Design 2: Plannd traffic volume and number of lanes (road width), Road Class and Design Standard Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Lecture	Road Design 3: Road Design Theory Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day3	December 15, 2021 Lecture	Road Maintenance and Management Lecturer: Dr. Motoya Yamasaki, Professor, Tokyo University of Agriculture Faculty of Regional Environment Science Department of Landscape Architecture Science
	Lecture	Land Acquisition: Resettlement, and Consensus Building with Residents Lecturer: Mr. Kenji Ogura, Director, International Projects, Hanshin Expressway Co., Ltd.
Day4	December 16, 2021 Exercise & Discussion	Exercise on Road Network Planning Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
Day5	December 17, 2021 Lecture	Traffic volume and congestion, other topics Lecturer: Mr. Tatsuyuki Sakurai, Technical Advisor, Katahira and Engineers International Inc.
	Discussion	Discussion and Knowledge Co-creation
	Closing Ceremony	Wrap-Up Session

*Please note that the schedule is tentative and subject to changes.

13. Place and Time to attend

In order to properly participate in the program, each participant needs to have certain level of internet access (please refer to 14 below). Places to attend this program (Online / On Demand) depends on the internet environment you may have. Please inform JICA overseas office the details of your internet environment by submitting the questionnaire referred to in ANNEX 2 below and which place you would like to take the program (e.g. home, office). If you can't find a proper place to take the program, please consult with JICA overseas office.

14. Circumstance for Internet Connection

The program is conducted through a platform “Zoom Meeting” (tentative). It is necessary to ensure a stable and secure internet connection to access the platform. Internet speed of downloading and uploading recommended is approximately 3 to 5 Mbps. (at least 2Mbps).

Please refer to the following URL for how to measure the internet speed.

<https://www.speedtest.net/>

Mobile phones are not recommended.

【Note】If you are not able to arrange internet connection or necessary devices, please consult with JICA overseas office in your country.

15. Connection Test

All participants are required to attend the connection test. After the notification of acceptance is officially issued, we will inform you of the details of this test.

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 operations. Participants will formulate Action Plans based on the methodologies and ideas acquired through the Program as means to cope with such issues and problems. Participating organizations are expected to utilize the Program for these 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 ensure enough time for the participants to carry out the activities of the Preparatory Phase after the participants are selected.

2. Nominee Qualifications:

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

(1) Essential Qualifications

1) Current Duties:

Be a mid-level technical officer in charge of road administration in central and local governments or government-related organization and expected to be assigned to the leading position in near future,

2) Educational Background:

Be university graduate or equivalent, specialized in civil engineering

3) Language Proficiency:

Be proficient in spoken and written English (Please attach official certificates for English ability, if possible)

4) Technical Requirements for the Online Course (Computer):

Technology Proficiency:

- Basic computer skills such as, sending/receiving email with attachments, and using a web browser.
- This course is delivered using the following services: Web Conferences (Zoom), Online Whiteboard (Google Jam board) and YouTube. (Online tutorial and support by JICA will be limited. The ability to be self-directed in learning new technology skills are required.)

5) Equipment and Internet Connection Requirement:

- Regular access to a computer, either from your home or from your office.
- Operating System: Windows or Mac OS (Updated version is preferred).
- High Speed Broadband Connection (at least 2Mbps).
- Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)
- Webcam Microphone, and Audio output Device (Speaker or Headset)

【Attention】

Internet access charge incurred for this course shall be borne by your organization or your house. If you find difficulty to meet the above requirements, please be sure to consult with the JICA office in your country before you apply.

In case you are using your office computer and you are unable to get permission to use Zoom, please contact the JICA office in advance.

6) Attendance Requirement:

Participation in all program is an essential requirement for the completion of the course.

7) Health:

be in good health, both physically and mentally, to complete the program.

(2) Recommended Qualifications

1) Age:

40 years old or younger in principle

2) Gender Consideration:

JICA is promoting Gender equality. Women are encouraged to apply for the Program.

3. Required Documents for Application

(1) Application Form:

Available at the JICA office (or the Embassy of Japan) in respective countries.

(2) Photocopy of Passport or Official ID:

If you possess your passport, please submit its photocopy. If not, please submit any official ID you have.

(3) Nominee's English Score Sheet:

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 JICA overseas office (or the Embassy of Japan).

Just for your reference, after receiving the documents, our JICA office is supposed to send it **to the JICA Tokyo by October 15th (Friday), 2021.**

(2) Selection:

After receiving the documents through proper channels from your government, the JICA offices (or the embassies 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

JICA overseas office (or the Embassy of Japan) will notify the results **not later than November 5th (Friday), 2021.**

*Fixed schedule will be shared to the accepted participants with the Notice of Acceptance.

5. <For accepted candidates only>

Preparation for Presentation:

At the beginning of the program, all Participants are required to deliver a presentation of Country Report in MS Power Point (PPT) format.

Further instruction for preparing the Power Point presentation will be given only to the accepted candidates after Notice of Acceptance. The soft data of said Power Point presentation should be sent to tictree@jica.go.jp (Ms.Emiko Miyoshi, Program Officer) **by November 26th (Friday), 2021,** preferably by e-mail. If the files are more than **5MB**, please contact the Program Officer of JICA Tokyo for an assistance.

6. Conditions for Participation

Participants of KCCP are required

- (1)** To strictly observe the course schedule.
- (2)** Not to change the program topics.
- (3)** To participate in the whole program including program orientation
- (4)** To respect copyright and portrait rights. To refrain from recording and sharing the video material, audio material, text, images, graphics and other content available during the program except for cases with specific permission.

IV. Administrative Arrangements

1. Organizer:

(1) Name: JICA TOKYO Center

(2) Contact: Ms. Emiko MIYOSHI (ticttee@jica.go.jp)

2. Implementing Partner:

(1) Name: Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism
(MLIT)

URL: http://www.mlit.go.jp/index_e.html

(2) Name: Infrastructure Development Institute - Japan (IDI)

URL: <http://www.idi.or.jp/english/00index.htm>

V. Other Information

Messages from the Concerned Partners:

Please refer the messages below for the applicants.

(1) Implementing Partner

Colleagues, are you having problems for improvement of road network of your country? Is the problem you are annoyed planning, implementation, or fund?

This knowledge sharing program of JICA presents practical strategies/measures that Japan adopted in developing the modern road network which supported economic growth as well as improving convenience of citizens' life.

I believe you will find some hints for solving your problem in this Program.



Eng. Tatsuyuki SAKURAI,⁺
Course Leader,⁺
Katahira and Engineers, inc.,⁺

(2) Messages from ex-Participants

"Lecture on 'History of Network Development in Japan' was useful. I found that, **legal framework and complete evolution of the most modern expressway system** was elaborated in a very professional and interesting way which touches the heart of the listener."

(from Pakistan)

"I understand that **Specific law with high technology and technical standard** regarding the expressway engineering are the key for solving the problems in my country.(from Vietnam)

"During the lecture of Mr.Sakurai told about the devastation of Japan after world war II. However, according to him, Japan succeeded in establishing the most modern road network within 25 years. **The story encouraged us a lot.**" (from Pakistan)

"I was totally **amazed**" (from the Philippines)

VI. Annex1 :

Country Report **(Accepted Participants only)**

• **Format:** visual material for presentation (ex. MS Power Point)

• **Submission:** send it via e-mail to ticttee@jica.go.jp by **November 26th (Friday), 2021.**

When sending e-mail, please include the course title, “Road Administration (202003181J001),” and the name of your country.

Country Report should include the following information. Please see the attached “Example Format of Country Report” for your reference.

1. Basic information of your country

(geography, demography, land area, topography, climate, population, GDP/Capita etc.)

2. Information of existing road network in your country

(expressways, national roads, provincial roads, municipal roads etc.)

VII. Annex2 :

Questionnaire (*Internet Learning Environment*)

*Submit this questionnaire together with the Application Form.

Name:
Country:

Please answer the following question. If you need any assistance for preparation of the learning environment, please consult with JICA overseas office.

1. Learning Place

(1) **Online program** (From where are you going to attend **this Online** program?)

() Home

() Workplace

() JICA overseas office

() Other place ()

(2) **On Demand Program** (From where are you going to attend **this On Demand** program?)

() Home

() Workplace

() JICA overseas office

() Other place ()

2. Device & Network (Please describe your device and network.)

(0) Device: ex) Personal Computer, Tablet, etc.

()

(1) Operating System: ex) Windows10, MacOS X, MacOS 10.9.X, etc.

()

(2) Browser: ex) Internet Explorer11+, Edge12+, Chrome 30+, etc.

()

(3) Network: ex) Wi-Fi, Wired LAN, etc.

()

3. Application (Please let us know about the application.)

(1) You can download and sign in “Zoom” application. (Yes/No)

Download from <https://zoom.us/download>

(2) You can view “YouTube” videos. (Yes/No)

Sample: <https://www.youtube.com/watch?v=wJkyQZRmSes>

4. Other information

If you have any specific online environment, please describe in detail.

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For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, Knowledge Co-Creation programs, JOCV programs, etc.

Within this wide range of programs, Knowledge Co-Creation Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

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



CORRESPONDENCE

For enquiries and further information, please contact the JICA office or the Embassy of Japan. Further, address correspondence to:

JICA Tokyo Center (JICA TOKYO)

Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan

TEL: +81-3-3485-7051 FAX: +81-3-3485-7904