



Knowledge Co-Creation Program (Group and Region Focus)

Hydrogen Solution for Decarbonization (A)



Course Number: 202515112J001

General Course Period : **September 23, 2026- October 22, 2026**

Associate Senior Course Period : **September 28, 2026- October 8, 2026**



NOTE: Adobe Acrobat Reader DC and Google Chrome are recommended as PDF viewer. JAWS and NVDA are recommended as screen reader.
NOTE: If there are any difficulties in reading this document, please contact JICA Office in your country or JICA Center in Japan.
NOTE: Depending on the circumstances, some or all of the program periods may be changed or cancelled after the application has been accepted.



How can we promote **hydrogen** supply and utilization?

Acquire theoretical and effective solutions for
hydrogen energy development through
practical program in Japan.



Outline

This course is designed for **government officials** engaged in **policy making and administrative work** to promote the supply and **utilization of renewable energy, including hydrogen**, in the energy transition period toward a carbon neutral society.

The program will be conducted in Japan. Lectures, discussions, and presentations will be conducted face-to-face.

During the field trip, participants will visit program sites in Fukuoka, Tokyo, Kyoto, Yamanashi and etc.

All sessions are carried out in **English**.

The program runs from **September 23 to October 22**, 2026 for general participants.

Senior officials from central ministries (Director-level and above) may opt for a shortened program period from **September 28 to October 8**.

Course Capacity: 5 participants



JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in June 2023, 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.](#)



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For What?

Background

Globally, hydrogen energy adoption is accelerating to support decarbonization and enhance industrial competitiveness. Policy support is expanding in the EU and the United States, while international hydrogen supply chains are developing, particularly in Australia and the Middle East. Widespread hydrogen use requires expanded applications in power generation, mobility, and industry, along with domestic onsite production and storage linked to global supply chains to ensure a low-cost, stable supply. Strengthening R&D and developing skilled human resources are also essential as a long-term national strategy.

Objectives

By the end of the program, participants will be able to design and launch institution-level measures for hydrogen-based decarbonization, supported by a clear understanding of global trends, Japan's hydrogen strategy, and enabling policies and technologies, and formalized in an actionable implementation plan.

To Whom?

Job Areas and Organizations

昨年度版の表現と
同じにしました

This program is designed for administrative officials who are involved in policy making and research and development affairs for expanding the supply and use of clean energy in ministries in charge of clean energy such as hydrogen and renewable energy.

The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.

Targeted Countries

Allocation countries

- Algeria(1)*
- Egypt (1)
- Indonesia (1)
- Mexico (1)
- Vietnam (1)

*The numbers in parentheses indicate the number of people.

When?

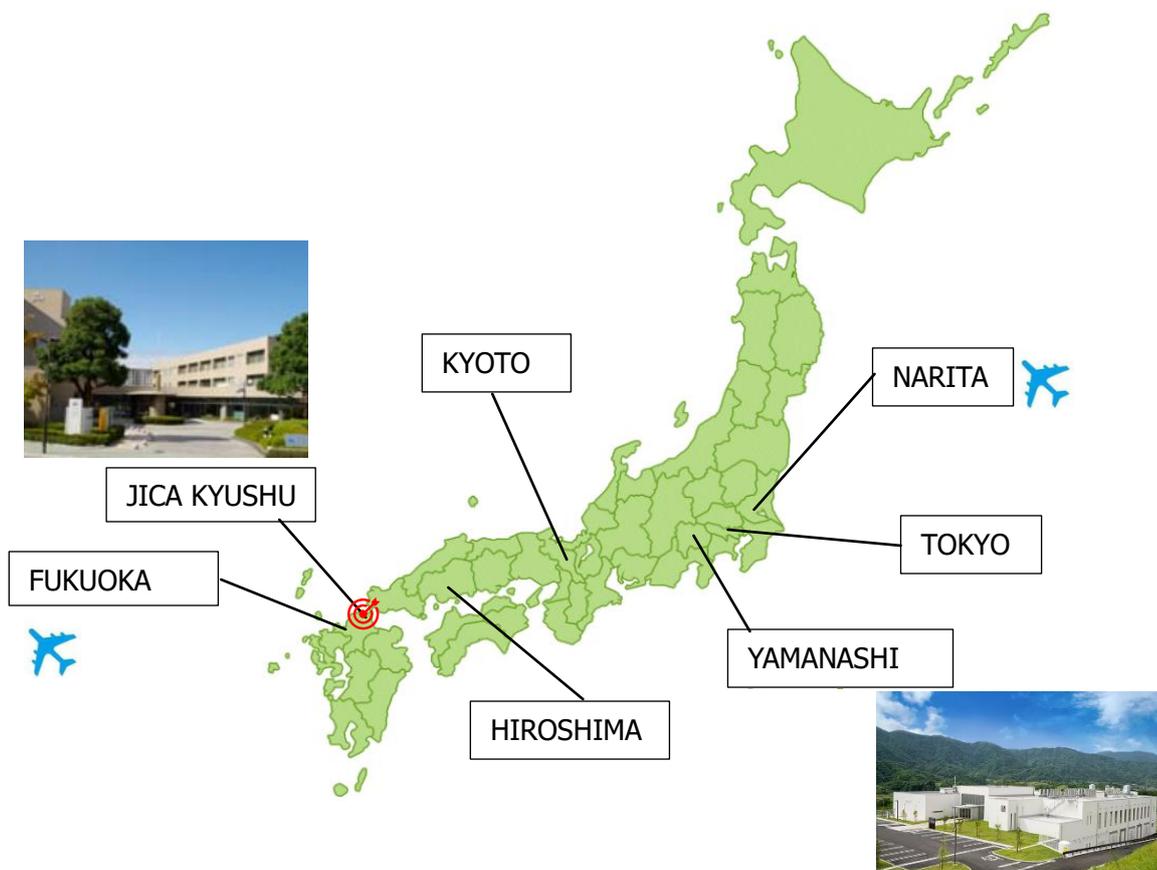
Face to Face Program Period

General program: From
September 23 2026 to October
22, 2026

Senior program: From September
28 to October 8, 2026

Where?

The program will be hosted by the JICA Kyushu Center. Participants will mainly be based at the JICA Kyushu Center for classroom sessions and will undertake study visits to **Kitakyushu City**, as well as **Tokyo, Yamanashi, Kyoto, and Hiroshima**. During travel outside Kyushu, participants will stay at the JICA Tokyo Center or designated hotels.

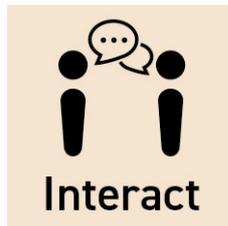
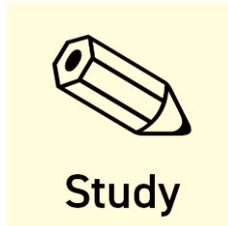


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How?

How to Learn

- Research
- Workshops
- Discussions
- Field Visits
- Presentations



Language

English

Commitment to the SDGs



Program Structure

Preliminary Phase (Activities when applying)

01. Job Report Presentation

All applicants are required to prepare both the Job Report (Annex I) and the Issue Analysis Sheet (Annex II).

Please prepare the Job Report in **PowerPoint format**, using the template provided in Attachment I as a reference.

02. General Orientation

As part of the general orientation, applicants who receive a notice of acceptance will be provided with a URL to a video entitled "**Japanese Administrative System and Local Governance**" for pre-arrival study.

Please ensure that you view this video in advance, as its purpose is to facilitate an understanding of Japan's mechanisms for interest coordination and decision-making—including the process for formulating the *Basic Energy Plan*—as well as the political context essential for its implementation.

"Japanese Administrative System and Social Structure"

- 1) Japanese Administrative System and Local Governance
<https://youtu.be/QFH7fZMy8QY>
- 2) Social Structure in Japan
<https://youtu.be/e4KpTiE1ji0>



1. First and Second day:

Arrival briefing, Program orientation, Japanese language lectures, cultural exchange programs and Course orientation

First Week to final week:

The subjects are subject to change.

Core Phase		
Course Outputs:	Subjects/Agendas	Methodology
1. Explain the advantages, issues, and countermeasures of hydrogen energy in the short-, medium-, and long-term framework in your country.	<p>(1) IAS solutions to issues and TASK extraction</p> <p>(2) Job report presentation (including current status and issues of hydrogen utilization in each country)</p> <p>■<u>The purpose of the job report presentation is as follows:</u></p> <ul style="list-style-type: none"> • To gain an understanding of the overall situation in the participating countries, including the current state of the field, ongoing initiatives, and existing challenges. • To understand the status and issues of the organization to which the participant (applicant) belongs, as well as the specific duties for which he or she is responsible. • To request participants to submit a Job Report as an initial step toward developing the final deliverable, the Action Plan. • To assign preliminary tasks to participants in order to deepen their analysis of sector-specific issues, requiring them to conduct relevant research and evaluation. <p>(3) Current Status and Future Prospects of Hydrogen Technology for Realization of a Carbon Neutral Society</p> <p>(4) Utilization of hydrogen as an energy carrier for decarbonization</p> <p>(5) Recent Trends in Hydrogen and Ammonia Technologies for Realizing a Decarbonized Society</p> <p>(6) Aims and Achievements of the Hydrogen Value Chain Council</p>	<p>Lecture</p> <p>Presentation</p> <p>Discussion</p> <p>Site Visit</p>

<p>2. Understand hydrogen production, storage / transportation, supply and utilization technologies, safety and security outlines and laws and regulations.</p>	<p>Production</p> <p>(1) Characteristics of Variable Renewable Energy and Hydrogen Use</p> <p>Transport</p> <p>(2) Establishment of hydrogen supply chain (LH2 and hydrogen CGS)</p> <p>(3) Pure Hydrogen Fuel Cells</p> <p>(4) Establishment of hydrogen supply chain - dehydrogenation plant</p> <p>Utilization</p> <p>(5) Development of hydrogen and ammonia power generation technology</p> <p>(6) Ammonia Supply Chain Future Vision</p> <p>(7) Challenge to become carbon neutral (development of commercial-use FCs)</p> <p>(8) Current Status and Future Development of Synthetic Fuel Technology</p> <p>(9) Toward the Future of Logistics with Hydrogen (FC Forklift Trucks)</p> <p>(10) TOTO's efforts to convert its factory to a CN system</p> <p>safety</p> <p>(11) Security for the Realization of a Hydrogen Society</p>	<p>Lecture Presentation Discussion Site Visit</p>
<p>3. Explain the main points of various measures such as policies, technologies / infrastructure, and business necessary for promoting a hydrogen society in Japan.</p>	<p>(1) Yamanashi Yonekurayama Electric Power Storage Technology Research Site</p> <p>(2) FC-Cubic/ Fuel Cell Cutting-Edge Research Center</p> <p>(3) Toyota Kyushu / hydrogen-using CN plant</p>	<p>Lecture Presentation Discussion Site Visit</p>
<p>4. Explain the main points of the roles and significance of governments, local governments, industrial</p>	<p>(1) Japan's Vision and Actions toward the Realization of a Hydrogen-based Society</p>	<p>Lecture Presentation Discussion Site Visit</p>

<p>and academic sectors, and local citizens to promote a hydrogen-based society.</p>	<p>(2) Activities and Achievements of Fukuoka Prefecture Hydrogen Strategy Council</p> <p>(3) Kitakyushu City's efforts toward the realization of a hydrogen society</p> <p>(4) Center for Advanced Hydrogen Materials Science (HYDROGENINUS)</p> <p>(5) Hydrogen Energy Products Research and Testing Center (HyTReC)</p> <p>(6) Kitakyushu Next Generation Energy Park</p>	
<p>5. Understand the challenges for realizing a hydrogen-based society in your own country and be able to propose medium- to long-term countermeasures</p>	<p>(1) Action Plan Lecture</p> <p>(2) Guidance on Action Plan Preparation and Presentation</p> <p>(3) Action Plan Presentation</p> <p>Action Plan= Final Deliverables</p> <ul style="list-style-type: none"> ● Organize and summarize the findings of the program in Japan. ● Summarize specific post-return activity plans that address the issues you are facing. 	<p>Lecture Presentation Discussion</p>

Management Members

Course Leader

Mr. Tarawa Yoichi

Kitakyushu International Techo-cooperative Association



Coordinator

Ms. Aratake Miho

Program Coordinator of KCCP

She has extensive experience in coordinating the Knowledge Co-Creation Program (KCCP), and has been the Program Coordinator for many courses in the field of resources and energy



Program Officer

Ms. Ogawa Yoko

Japan International Cooperation Agency (JICA)
Kyushu Center

Message: Hello, friends! Have you ever experienced struggling with promotion of Hydrogen energy use? In this program, we will focus on Yamanashi, Japan's largest research center for P2G system "Hydrogen and Fuel Cells" as a key to the contribution of government officials and engineers in solving the issues of hydrogen energy promotion. Gain new perspectives through discussions with the lecturers and other participants. We look forward to meeting you!



Voice

Past Program Alumni Comments

 Mr. Jorge Vinicio Vargas
Costa Rica

Thank you so much. The opportunity to expand technical knowledge and learn about Japanese and other cultures in the course will be memorable and help strengthen collaborative relationships between the countries.



 Ms. Aurora Tenorio Dena
Mexico

It was an amazing learning experience, both for Hydrogen and Japanese culture. I am very grateful to JICA, this course will be crucial for my activities and for developing a Hydrogen Strategy.



Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
 - (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the course to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
-

2. Nominee Qualifications

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

【 Remarks 】 Each Organizations is requested to **strongly encourage female candidates** to apply for the course to accelerate the realization of gender equality and women’s empowerment.

Disabilities: Persons with disabilities who meet the required qualifications also have an opportunity to apply. Reasonable accommodations will be considered for participants with disabilities. Some programs of the course might have difficulty for persons with disabilities to participate due to environmental and other conditions. **“Reasonable accommodation”** means necessary and appropriate modification and adjustments not imposing a disproportionate or undue burden, where needed in a particular case.

(1) Essential Qualifications

1) Eligible Organizations

Organizations within relevant ministries—such as the Ministry of Energy or the Ministry of the Environment—that are responsible for formulating clean energy policies, including those related to renewable energy, hydrogen, and carbon storage.

2) Eligible Applicants

Position Requirements:

Applicants must be officials engaged in the formulation and promotion of clean energy policies—such as hydrogen policy—within the eligible organizations listed above.

<Experience>

At least 3 years of experience in policy development or promotion of clean energy, including hydrogen energy.

Particular consideration will be given to applicants who possess substantial experience in renewable energy and hydrogen, demonstrate strong motivation to participate, and exhibit well-developed logical reasoning skills.

<Education Background>

Applicants must have bachelor degrees or equivalent in relevant fields such as energy policy/engineering/science, economy, law, business.

< Language>

A high level of English proficiency is required as it includes active participation in discussions and presentations. Sufficient comprehension is also required as lectures will be given in English, including consecutive interpretation. If possible, please attach official certificates of English proficiency such as TOEFL or TOEIC.

< Health>

Applicants must be in good health to participate in the program in Japan.

Participant's health and safety should be most respected. Pre-existing conditions* and pregnancy may lead to health problems that were not present prior to arrival in Japan due to stress from international travel, changes in climate, and a new living environment. In recent years, regrettable cases have occurred, including the exacerbation of symptoms after arrival and, in the case of pregnancy, stillbirth. Some participants have also incurred substantial out-of-pocket medical costs. If any of the conditions below may apply, please take a moment to consider whether to participate, and continue after confirming your agreement to the points below.

* Pre-existing conditions :Chronic diseases, Conditions currently under treatment and Past illnesses that have resolved

① Questionnaire (“QUESTIONNAIRE ON MEDICAL STATUS AND RESTRICTION”)

If any of the following apply, you must state them accurately in the questionnaire, even if they do not affect your current work or daily life.

- a. Chronic diseases (e.g., hypertension, diabetes)
- b. Conditions currently under treatment
- c. Past illnesses that have resolved (including serious conditions affecting the heart, liver, or brain; tuberculosis, etc.)
- d. Pregnancy (for female applicants)

② Medical certificate

Please submit a medical certificate issued by a doctor that your condition is stable and that, from a medical standpoint, there is no problem with your participation in KCCP in Japan.

Applicable cases:

- a. Chronic diseases (e.g., hypertension, diabetes)
- b. Conditions currently under treatment
- c. Past illnesses that have resolved (including serious conditions affecting the heart, liver, or brain; tuberculosis, etc.)

③ Reporting changes

If pregnancy or any health issues are identified after submitting the form, please report them to JICA promptly.

④ Insurance coverage

Medical and additional living expenses related to pregnancy, pre-existing conditions are NOT covered by insurance arranged by JICA. Such costs must be borne entirely by the participant; JICA assumes no liability.

* Please understand that insurance coverage applies only to sudden illness or injury occurring during your stay in Japan.

* Medical expenses in Japan could be a significant financial burden when not covered by insurance.

(2) Recommendable Qualifications

1) Expectations for the Participants:

Nominations of individuals holding positions at the Director level or above in central government ministries, such as the Ministry of Energy, are strongly encouraged.

2) Gender Equality and Women's Empowerment :

JICA seeks more female applicants due to the past records of fewer applications from women. JICA is committed to promoting gender equality and women's empowerment, and provides equal opportunities for all applicants regardless of their sexual orientation or gender identity.

3. Required Documents for Application

(1) Application Form:

The Application Form is available at the JICA overseas office or the Embassy of Japan.

Your description in "5. Background and Purpose of Application" will be particularly important in the selection process.

Please note the following omissions

- ✓ Your photo
- ✓ Official Stamp
- ✓ Questionnaire on Relationship with the Military
- ✓ Language Proficiency
- ✓ Medical status and restriction
- ✓ Signatures (in 5 places)

If you hold a position equivalent to **Director-General, Director, or higher** within your national government's central ministry—and if you are considered to require **special consideration in the implementation of technical cooperation**—please submit a **ministerial organizational chart** that clearly indicates your official position.

In addition, please provide detailed information regarding your position in the sections: **4.1) Career Background** and **5.2) Main Duties of Applicant**.

If you have any difficulties/disabilities which require assistance, please specify necessary assistances in the QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION (1-(c)) in Form3 of the application form. Information will be reviewed and used for reasonable accommodation.

(2) English Score Sheet:



to be submitted with the application form if nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

If you are unable to provide the required documents, please arrange to undergo an interview conducted by staff at the JICA Office in your country.

(3) Photocopy of Passport:

You should submit it 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.

*The following information should be included in the photocopy:

Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date

(4) Job Report and Issue Analysis Sheet (IAS) (ANNEX I & II):

- To be submitted with application form. Job Report and IAS are necessary documents for screening of applicants.
- Each participant will be required to present IAS in approx. 10 minutes in an early stage of the course. Visual materials such as PowerPoint and pictures may be helpful for your presentation if you bring them.
- When you use PowerPoint, it is preferable to use letters more than 24-point and not to use pictures on the background.
- An applicant should submit an IAS with approval of his/her superior and an IAS without approval of an applicant's superior is not accepted.
- The purpose of an IAS is to logically organize relationships between challenges of an applicant's organization and contents of fields to be covered in a course.

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 JICA Center in Japan **by July 17, 2026**

(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 **August 7, 2026**

5. Conditions for Participation

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the air ticket (and flight class and flight schedule arranged by JICA) and lodging by the participants themselves,
- (3) to understand that leaving Japan during the course period (to return to home country, etc.) is not allowed (except for programs longer than one year),
- (4) not to bring or invite any family members (except for programs longer than one year),
- (5) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Japanese Government in respect of the course,
- (6) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (7) not to engage in political activities, or any form of employment for profit,
- (8) to discontinue the program, should the participants violate Japanese laws or JICA's regulations, or the participants commit illegal or any type of immoral conduct including sexual harassment, or get critical illness or serious injury and be considered unable to continue the course. The participants shall be

responsible for paying any cost for treatment of the said health conditions except for the medical care stipulated in (3) of “3.Expenses”, “Administrative Arrangements”,

- (9) to return the total amount or a part of the expenditure for the KCCP depending on the severity of such violation, should the participants violate the laws and ordinances,
- (10) not to drive a car or motorbike, regardless of an international driving license possessed,
- (11) to observe the rules and regulations at the place of the participants' accommodation, and
- (12) to refund allowances or other benefits paid by JICA in the case of a change in schedule.
- (13) to promptly notify JICA in the case that there are any changes in the health status since the time of application (such as changes requiring medical attention due to illness or discovery of pregnancy).

Administrative Arrangements

1. Organizer (JICA Center in Japan)

- (1) **Center:** JICA Kyushu Center (JICA KYUSHU)
- (2) **Program Officer:** Ms. OGAWA Yoko (kicctp@jica.go.jp)

2. Implementing Partner

- (1) Name: Kitakyushu International Techno-cooperative Association(KITA)
- (2) URL: <http://www.kita.or.jp/english/>

3. Travel to Japan

- (1) **Air Ticket:** In principle, JICA will arrange an economy-class round-trip ticket between an international airport designated by JICA and Japan.
- (2) **Travel Insurance:** Coverage is from time of arrival up to departure in Japan. Thus, traveling to outside Japan (include damaged baggage during the arrival flight to Japan) will not be covered.

4. Accommodation in Japan

Basically, JICA will arrange the following accommodations for the participants in Japan outside of JICA Kyushu.

JICA Kyushu Center (JICA Kyushu)

Address:

2-1, Hirano 2-chome, Yahata Higashi-ku, Kitakyushu City, Fukuoka Prefecture 805-8505

Tel:81-93-671-6311, Fax: 81-93-671-0979

(where "81" is the country code for Japan, and "93" is the local area code.

<https://www.jica.go.jp/english/domestic/kyushu/index.html>

JICA Tokyo Center (JICA Tokyo)

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

Tel: +81-3-3485-7051 Fax: +81-3-3485-7904



If there is no vacancy at JICA Kansai or Tokyo, JICA will arrange alternative accommodation(s) for the participants.

5. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses and stopover.
- (2) Expenses for study tours (basically in the form of train tickets).
- (3) Medical care for participants who become ill after arriving in Japan (the costs related to pre-existing illness, pregnancy, or dental treatment are not included).
- (4) Expenses for program implementation, including materials.
- (5) 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) *Link to JICA HP (English/French/Spanish/Russian):
The Knowledge Co-Creation Program (KCCP) | Our Work | JICA

6. Pre-departure Orientation

A pre-departure orientation will be held at respective country's JICA office (or the Japanese Embassy), to provide Participants with details on travel to Japan, conditions of the course, and other matters.

*YouTube of "Knowledge Co-Creation Program and Life in Japan" and "Introduction of JICA Center" are viewable from the link below.

Image videos of 'Introduction of JICA Center (YouTube)' show the following information of JICA Centers: Location, Building, Entrance, Reception(Front desk), Lobby, Office, Accommodation(Room), Amenities(Hand dryer), Bathroom(Shower and Toilet), Toiletries, Restaurant, Laundry Room(Washing machine, Iron), ICT Room(Computer for participants), Clinic, Cash dispenser, Gym, Neighborhood.

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
French ver.	https://www.youtube.com/watch?v=v2yU9ISYcTY
Spanish ver.	https://www.youtube.com/watch?v=m7l-WIQSDjI
Russian ver.	https://www.youtube.com/watch?v=P7_ujz37AQc
Arabic ver.	https://www.youtube.com/watch?v=1iBQqdpXQb4
Part II: Introduction of JICA Centers in Japan	
JICA Tokyo	https://www.jica.go.jp/tokyo/english/office/index.html

JICA Kyushu	https://www.jica.go.jp/kyushu/english/office/index.html Introduction of JICA Kyushu - YouTube
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If the link of these youtube URLs has expired, please access the URL below and search the necessary information from the key word.

<https://www.youtube.com/user/JICAChannel02>

Other Information

1. Report and Presentation

(1) Job Report & Issue Analysis Sheet (IAS)

Each applicant is required to submit his/her own Job Report & Issue Analysis Sheet following the instruction. Participants will have a presentation of his/her Job Report & Issue Analysis Sheet up to 10 minutes at the earlier stage of the program in Japan in order to share knowledge and background with other participants as well as instructors.

(2) Action Plan

Participants are required to make an Action Plan at the end of the program to express your idea and plan that you carry out after your return, reflecting the knowledge and method you acquire in the program. Each person will have 10-15 minutes for presentation.

In addition, participants are required to complete IAS by the end of the program in Japan and present it at the Action Plan Presentation.

2. Participants who have successfully completed the program will be awarded a certificate by JICA. It requires **70% or more** of program participation. If you do not create an action plan and submit a questionnaire, you will not be awarded a certificate.

3. Participants are recommended to bring **a laptop computer** for your convenience. During the program, participants are required to work on the computers, including preparation of Action plans, finalizing Job report etc.

4. Allowances will be deposited to your temporary bank account in Japan after 2 to 5 days after your arrival to Japan. It is highly advised to bring **some cash (100 usd etc.)** in order to spend necessary money for the first 2 to 5 days stays after your arrival.

5. It is very important that your currency must be exchanged to Japanese Yen at any transit airport, Narita International Airport in Tokyo. **It is quite difficult to exchange money after that**, due to no facility or time during the program.

6. The field trip is arranged during the program. It would be convenient if you bring a **small travel bag** or small carry.

Annex

- I. PowerPoint template for preparing the Job Report
- II. Issue Analysis Sheet
- III. Issue Analysis Sheet (IAS) Guidelines
- IV. Sample Schedule (for reference)

Annex I

Job Report

Name of the Course	Hydrogen Solution for Decarbonization (A)
Name of Applicant	
Name of Country	
E-Mail	

Please prepare the job report in PowerPoint format, following the Annex I template.



ANNEX II *Issue Analysis Sheet (IAS)*

Name: _____

No	【A】* Issues that you confront.	【B】 Actions that you are taking.	
1	<ul style="list-style-type: none"> In column "A: Issues you are facing", please indicate the issues you are facing related to the use of hydrogen for decarbonization. 	<ul style="list-style-type: none"> Describe the actions you are taking to address the A issue. 	
	【I】 Task or The information that I need.	【II】 Useful information that I obtained /found.	【III】 Lecturer
	<ul style="list-style-type: none"> Shaded areas need not be listed. It will be described at the end of the program. 		

No	【A】* Issues that you confront.	【B】 Actions that you are taking.	
2	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	
	【I】 Task or The information that I need.	【II】 Useful information that I obtained /found.	【III】 Lecturer

No	【A】* Issues that you confront.	【B】 Actions that you are taking.	
3	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	
	【I】 Task or The information that I need.	【II】 Useful information that I obtained /found.	【III】 Lecturer

Issue Analysis Sheet (IAS) Guidelines

1. What is IAS?

- (1) IAS is a tool to logically organize relationships between issues and contents of the program in Japan.
- (2) IAS will help the nominee to clarify his/her challenges to be covered in each expected module output and to formulate solutions to them.
- (3) The sheet is to be utilized as a logical process control sheet to draw up improvement plans for the issues by filling out the sheet in phases from prior to the nominee's arrival through to the end of the program.
- (4) In addition, it is used for the course leader and lecturers to understand the issues that each participant is confronting, and provide him/her with technical advice, useful references and solutions through the program in Japan.

2. How to fill out IAS?

- (1) Please describe the issues you confront in column " **A: Issue that you confront**".
- (2) You shall describe challenges you are facing in your section also in the Job Report. Among them, in column A, please describe only those issues you expect to solve utilizing information and knowledge being delivered in this course. Prepare the separate rows for each problem; if necessary, please add new rows.
- (3) In column " **B: Actions that you are taking to deal with the issue now.**", please describe actions that you are taking to solve the issue shown in " **Column A**".
- (4) This information is very important to carry out the course and also to make Action Plan as a fruit of the program.
- (5) It's not necessary to fill in column " **I: Task to solve the Issue**", column " **II: The information that I need to carry out the Task.**" and column " **Result**". These columns shall be filled out during the program.
- (6) " **Column I**" shall be clarified and filled out in the subject " **Confirmation of Task based on IAS**" implemented at the earlier time in the program.
- (7) " **Column II**" and " **Column Result**" shall be filled out during the program and you are required to present completed IAS in the subject " **Action Plan Presentation**". **II**

ANNEX IV -**Sample Schedule**

*The schedule will be subject to change.

Date	Day	AM	PM	Short Course	Notes
23-Sep	Wed				Public Holiday / Arrival
24-Sep	Thu	Arrival Briefing, Building Tour	Program orientation by JICA Program Officer	1	
25-Sep	Fri	Cultural Exchange program	Orientation + IAS Lecture by Course Leader	2	
26-Sep	Sat			3	
27-Sep	Sun			4	
28-Sep	Mon	TASK Extraction	TASK Extraction	5	Arrival of the short course
29-Sep	Tue	Job Report Presentations Participant Introductions	Hydrogen as an Energy Carrier for Decarbonization (Kyoto Univ.)	1	
30-Sep	Wed	Current Status and Future Development of Hydrogen Technologies toward Carbon Neutrality (Kyushu Univ., Yokomoto)	Visits: HYDROGENIUS + HyTReC	2	
1-Oct	Thu	Initiatives of Kitakyushu City Toward a Hydrogen Society	Factory Decarbonization (TOTO)	3	
2-Oct	Fri	Fukuoka Prefecture Green Strategy + Action Plan Lecture	Workshop & Review 1	4	
3-Oct	Sat			5	

Date	Day	AM	PM	Short Course	Notes
4-Oct	Sun	Travel to Tokyo		6	
5-Oct	Mon	Japan's Policy Trends on Hydrogen & Ammonia (METI)	Global Trends in Hydrogen Toward Net-Zero Achievement (Bloomberg, others)	7	
6-Oct	Tue	Ammonia Supply Chain (IHI)	Hydrogen Value Chain (Chiyoda)	8	
7-Oct	Wed	Bus transfer to Yamanashi	Start of the Hydrogen Energy Society (Yamanashi Prefecture + FC-Cubic)	9	
8-Oct	Thu	Characteristics of Variable Renewable Energy and Hydrogen Utilization" (JERA, Nakamura)	Japan Hydrogen Association (JH2A) Initiatives and Hydrogen Trends in Japan	15	Departure of short course
9-Oct	Fri	Safety for Realizing a Hydrogen Society (KHK)	<ul style="list-style-type: none"> Hydrogen and Ammonia Power Generation Technology Development/MHI CN Fuel Initiatives/ENEOS 	16	
10-Oct	Sat	Action Plan Guidance & Review 2	Action Plan Guidance & Review 2	17	
11-Oct	Sun				
12-Oct	Mon	Public Holiday		19	
13-Oct	Tue	Travel to Kyoto	Hydrogen Utilization Demonstration Facility (Panasonic)	20	
14-Oct	Wed	Kyoto Site Visit → Travel	Hydrogen Supply Chain Construction & Hydrogen Gas Turbine Development (Kawasaki Heavy Industries)	21	Kobe Stay
15-Oct	Thu	Travel to Hiroshima	Museum Visit → Transfer to Kokura	22	Return to KIC

Date	Day	AM	PM	Course Days	Notes
16-Oct	Fri	Action Plan Presentation Guidance & Review 3	Action Plan Presentation Guidance & Review 3	23	
17-Oct	Sat			24	
18-Oct	Sun			25	
19-Oct	Mon	Factory Decarbonization Using Hydrogen (Toyota Kyushu)	Hydrogen Production from Sewage Sludge (Fukuoka City)	26	
20-Oct	Tue	Hydrogen FC Forklift / Toyota Industries	Kitakyushu Eco-Town & Next-Generation Energy Pavilion Visit	27	
21-Oct	Wed	Action Plan Presentation	Action Plan Presentation Evaluation Meeting Closing Ceremony	28	
22-Oct	Thu	Departure			

*The schedule will be subject to change.

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 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 from a process of adoption and adaptation, 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.

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.



Correspondence

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("81" is the country code for Japan, and "93" is the local area code)