



Knowledge Co-Creation Program (Group and Region Focus)

Introduction and Management of Air Navigation Services (ANS) Technology



Course Number: 202411678J001

Course Period: July 6- July 30, 2025



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 do we introduce and manage Air Navigation Service Technology?

Gain insight to an essence of Air Navigation
Service Technology
more practical, more interactive,
more inspirational
from the experiences of Japan.



Outline



This program is to acquire the broad range of knowledge and technique on Air Navigation services such as GNSS (Global Navigation Satellite System), Surveillance system(WAM.,MLAT, etc.) which is encouraged to be implemented among ICAO Contracting States by ICAO Global Air Navigation Plan(GANP). The ultimate goal of this program is to develop an ability to draw up your country's ANS system implementation plan for future.



*In this program, we introduce "Active Learning" approach to promote knowledge co-creation among participants.

All sessions are carried out in English.

The period of the program is from July 6 - July 30, 2025.

Course Capacity: 8 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

In order to operate seamless, safe and efficient aircraft, International Civil Aviation Organization (ICAO) has implemented GNSS (Global Navigation Satellite System), WAM (Wide Area Multilateration), MLAT (Multilateration), etc., in its long-term vision of the future “GANP (Global Air Navigation Plan)” in each country, but developing countries have not been able to adequately take actions due to lack of knowledge and experience, therefore the situation is in need of support. Therefore, it is of great significance from the viewpoint of contributing to solving future problems in the field of air traffic control by having air traffic control engineers from developing countries understand the outline of these systems, the methods when they are introduced in Japan, and the operation and maintenance methods, as well as formulating plans for the renewal of these control systems in their own countries.

Objectives

To acquire the broad range of knowledge on Communication,

Navigation and Surveillance system, which can help expand traffic volume and improve safety and ability to develop a ANS system implementation plan in light of your country's situation.

To Whom?

Job Areas and Organizations

【Target Organization】

Air Navigation Services Provider or Regulator

【Target Group】

1. Be engaged in Communication, Navigation and Surveillance system operation and engineering
2. Be in charge of planning ANS(Air Navigation Services) system implementation

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

Targeted Countries

Philippines, Timor-Leste, Mongolia, Vanuatu, Egypt, Malawi, Djibouti, Kyrgyz Republic
Participants who have successfully completed the program will be awarded a certificate by JICA.



When?

Program Period in Japan



Face-to-Face Program:

July 6- July 30, 2025.

Program is subject to change depending on the situation.

Where?

This course that organized by the JICA Tokyo Center. Face-to-face program will mainly be held in and around Tokyo metropolitan area, Okinawa and Fukuoka.



How?

How to Learn

- Interactive Q&A Session
- Lectures
- Field Visits
- Discussions
- Presentations



Language

English

Commitment to the SDGs



Program Structure

Preliminary Phase

- Preparation of Country Report on the current situation of ANS

Core Phase

- Lectures
 - ANS using GNSS (Global Navigation Satellite System); SBAS (Satellite Based Augmentation System) and GBAS (Ground Based Augmentation System)
 - Surveillance System; WAM (Wide Area Multilateration), MLAT (Multilateration) and ADS-B/C
 - New ANS Technology; FOD (Foreign Object Debris) Detection System,
 - Communication technology (Data communication, etc.),
 - Remote Tower/AFIS (Aerodrome Flight information Services), and
 - Flight Inspection/Validation
- Field Visits
 - Network Performance Assessment Center (NPAC)
 - Electronic Navigation Research Institute (ENRI)
 - Haneda Airport
 - Fukuoka Area Control Center (ACC)
 - Naha Airport (Remote AFIS)



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.
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2. Nominee Qualifications

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

(1) Essential Qualifications

- 1) Current Duties: Be engaged in Communication, Navigation and Surveillance system operation and engineering, and planning ANS system implementation in Air Navigation Services Provider or Regulator
- 2) Experience in the Relevant Field: have at least 3 years of experience in the field of Air Navigation System.
- 3) Educational Background: be a graduate of university or have equivalent academic background
- 4) Language Proficiency: have a competent command of English proficiency in listening, reading, speaking, and writing (This workshop includes active participation in discussions, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC

etc, if available)

5) Health: must be in good health to participate in the program in Japan. To reduce the risk of worsening symptoms associated with respiratory tract infection, please be honest to declare in the Medical History (QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION of the application form) if you have been a patient of following illnesses; Hypertension / Diabetes / Cardiovascular illness / Heart failure / Chronic respiratory illness.

(2) Recommended Qualifications

- 1) Age: under the ages of fifty (50) years
- 2) Gender Equality and Women's Empowerment : 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)
 - * If you have any difficulties/disabilities which require assistance, please specify necessary assistances in the QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION (1-(c)) of the application form. Information will be reviewed and used for reasonable accommodation.
- (2) **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
- (3) **English Score Sheet:** to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at JICA Center in Japan by April 18 (Fri), 2025)

(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 May 9 (Fri) 2025.**

5. Additional Document(s) to Be Submitted by Accepted Candidates

Country Report -- to be submitted by June 13, 2025. Accepted candidates are required to prepare a Country Report through Power Point. (Please read Annex "Country Report" for detailed information.). The Country Report should be sent to JICA by June 13, 2025, preferably by e-mail to Mr. TANAKA Keitaro (Tanaka.Keitaro@jica.go.jp/ tictee@jica.go.jp)

6. 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 the Japanese laws or JICA's regulations, or the participants commit illegal or immoral conduct, 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.

Administrative Arrangements

1. Organizer (JICA Center in Japan)

- (1) Center: JICA Tokyo Center (JICA TOKYO)
 - (2) Program Officer: Mr. TANAKA Keitaro (Tanaka.Keitaro@jica.go.jp/tictee@jica.go.jp)
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2. Implementing Partner

Japan Radio Air Navigation Systems Association (JRANSA)

3. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses, outfits, and shipping 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.

*Link to JICA HP (English/French/Spanish/Russian):

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/accept



4. 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.

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=v2yU9lSYcTY
Spanish ver.	https://www.youtube.com/watch?v=m7l-WlQSDjl
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 Hokkaido (Sapporo)	https://www.jica.go.jp/sapporo/english/office/index.html
JICA Hokkaido (Obihiro)	https://www.jica.go.jp/obihiro/english/office/index.html
JICA Tohoku	https://www.jica.go.jp/tohoku/english/office/index.html
JICA Tsukuba	https://www.jica.go.jp/tsukuba/english/office/index.html
JICA Tokyo	https://www.jica.go.jp/tokyo/english/office/index.html
JICA Yokohama	https://www.jica.go.jp/yokohama/english/office/index.html
JICA Hokuriku	https://www.jica.go.jp/hokuriku/english/office/index.html
JICA Chubu	https://www.jica.go.jp/chubu/english/office/index.html
JICA Kansai	https://www.jica.go.jp/kansai/english/office/index.html
JICA Chugoku	https://www.jica.go.jp/chugoku/english/office/index.html
JICA Shikoku	https://www.jica.go.jp/shikoku/english/office/index.html
JICA Kyushu	https://www.jica.go.jp/kyushu/english/office/index.html
JICA Okinawa	https://www.jica.go.jp/okinawa/english/office/index.html

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>



5. Reference

PDF: KENSHU-IN GUIDE BOOK

For more detailed terms and conditions

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/c8h0vm000011i07-att/guide_en.pdf



Video: JICA Predeparture Briefing

For more information on life in Japan and KCCP

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



Website: JICA

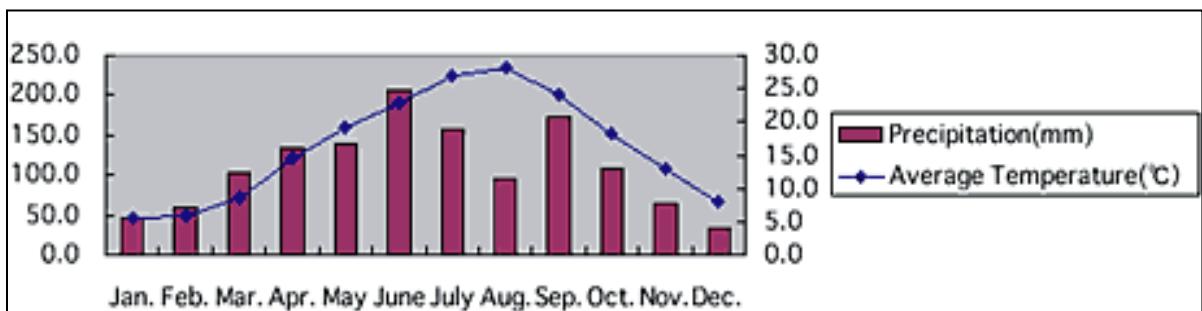
English/French/Spanish/Russian

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html



6. Other Information

1. Participants who have successfully completed the program will be awarded a certificate by JICA.
2. Participants are strongly encouraged to bring their laptops for their convenience. During the program including quarantine period on arrival in Japan, participants are required to work on computers, including the preparation of the Action Plan (AP), etc. Most accommodations have internet access.
3. Participants are requested to bring collared shirt, comfortable shoes, outfits suitable for walking, daypack and rainwear for field visits / activities.
4. Allowances, such as for living, outfit, and shipping, will be deposited to participants' temporary bank account (opened by JICA) 2 to 5 days after their arrival in Japan. It is highly advised to bring some cash in order to cover necessary expense for the first 2 to 5 days.
5. It is very important that some of your currency must be exchanged to Japanese Yen at any transit airport or Haneda or Narita Airport in Japan soon after your arrival. It is quite difficult to exchange money after that, due to limited availability of facility or time.
6. The climate in July in Japan is usually hot in daytime, as the climate graph below indicates.



Annex

Country Report

Information and Data on Air Navigation Services (ANS) Technology

Accepted applicants are expected to fill the form and submit it with the Application Form to JICA office in your country.

Country report should include the following information. The contents should be summarized properly so that each participant will be able to complete his/her presentation within 15 minutes.

1. Name of Participant:
2. Country:
3. Name of Organization:
4. Organization Chart and The Section of Participant Belongs:
5. Location of Airports:
6. Number of Aircraft Controlled - Mainly International Airports (Past approximately 10 years)
7. Location of Air Navigation System (VOR/DME, ILS, RADAR etc.)
8. Challenges and Concerns on ANS (if any)
9. About Plan of Introducing Communication Navigation Surveillance (CNS) Systems in Future. (If your country has a plan.)



For Your Reference

JICA and Capacity Development

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

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

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

Japanese Development Experience

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

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated 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

For enquiries and further information, please contact the JICA office or Embassy of Japan.

Further, address correspondence to:

JICA Tokyo Center (JICA Tokyo)

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