



Online

Knowledge Co-Creation Program (Group and Region Focus)

Defense Practice against Cyber Attacks (A)



Online Program Period:

September 26 - October 7, 2022

Program Number:

No. 202107720-J001 (FY2022)



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 ensure cyberspace security?

Gain insight required to enhance your
incident response capabilities
from the experts of Japan.

Outline

This program is designed for cyber incident management specialists in government agencies/ governmental CSIRT/ national CERT to enhance their incident response capabilities and also to build network among cyber security experts.

The participants will be provided with opportunities of a series of lectures & cyber security incident handling exercises, as well as discussions and follow-up activities.

All sessions are carried out in English.

The period of the program is from September 26 to October 7, 2022.

Course Capacity: 17

CYBERSECURITY

- ✓ Incident Handling
- ✓ APT attacks
- ✓ Critical information infrastructure
- ✓ OSINT



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.

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For What?

Background

With the continuing rapid evolution of the internet technology, the damages and risks of cyber attacks targeting governmental organizations and private companies are increasing all over the world. Over the past several years, the number of cases of advanced persistent threat (APT) attacks has been increasing, and the damages caused by such attacks has been getting worse. In order to enhance capability to address damages and risk from those cyber attacks, building appropriate knowledge, skills of incident handlings and network to interconnect experts is essential.

Objectives

This program aims to develop human resources who understand necessary organizations, functions, technologies, process and human resources for cyber security incident response,

particularly against advanced persistent threat (APT), though lectures on recent cyber security measures and incident handling exercises.

To Whom?

Job Areas and Organizations

This program is designed for cyber incident management specialists of government agencies, government CSIRTs (Computer Security Incident Response Teams), or national CERTs (Computer Emergency Response Teams).

**Find the further Nominee Qualifications on page 11-12.*

Targeted Countries

Armenia, Botswana, Egypt, Pakistan, Viet Nam, Zimbabwe

When?

Online Program Period



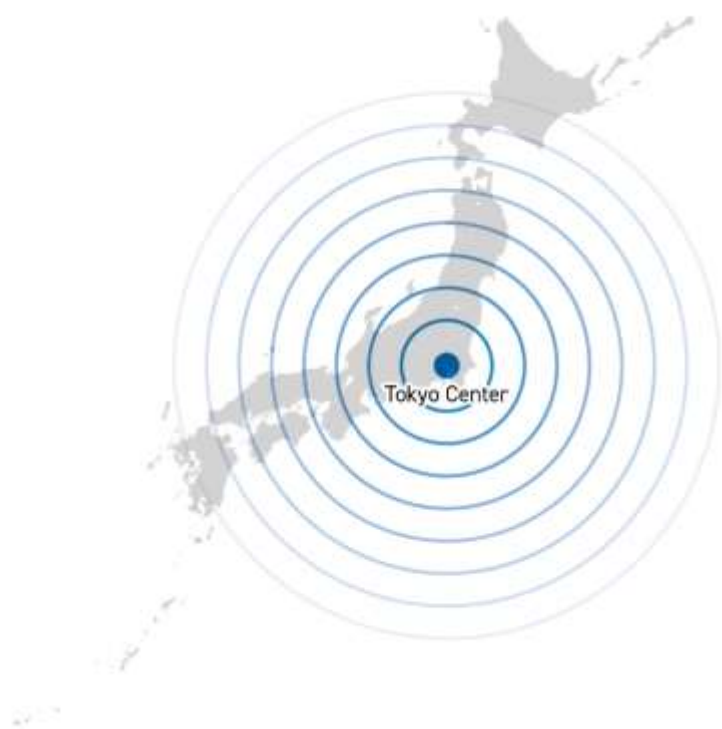
From September 26 (Mon), 2022
to October 7 (Fri), 2022

*All participants will be connected via **Zoom**.

*You will have online program for 10 days in total except Saturday & Sunday. You will be notified about the details of time schedule for the program later.

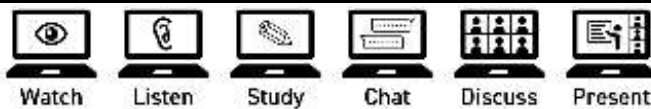
Where?

This program is carried out totally **online**, organized by JICA Tokyo Center. You can attend the program either from your home/office where you can ensure a certain IT environment.



How?

How to Learn



- Online Self-Study
- Online Interactive Q&A Session
- Online Lectures & Hands-on Exercises
- Online Discussions
- Online Presentations

Language

English

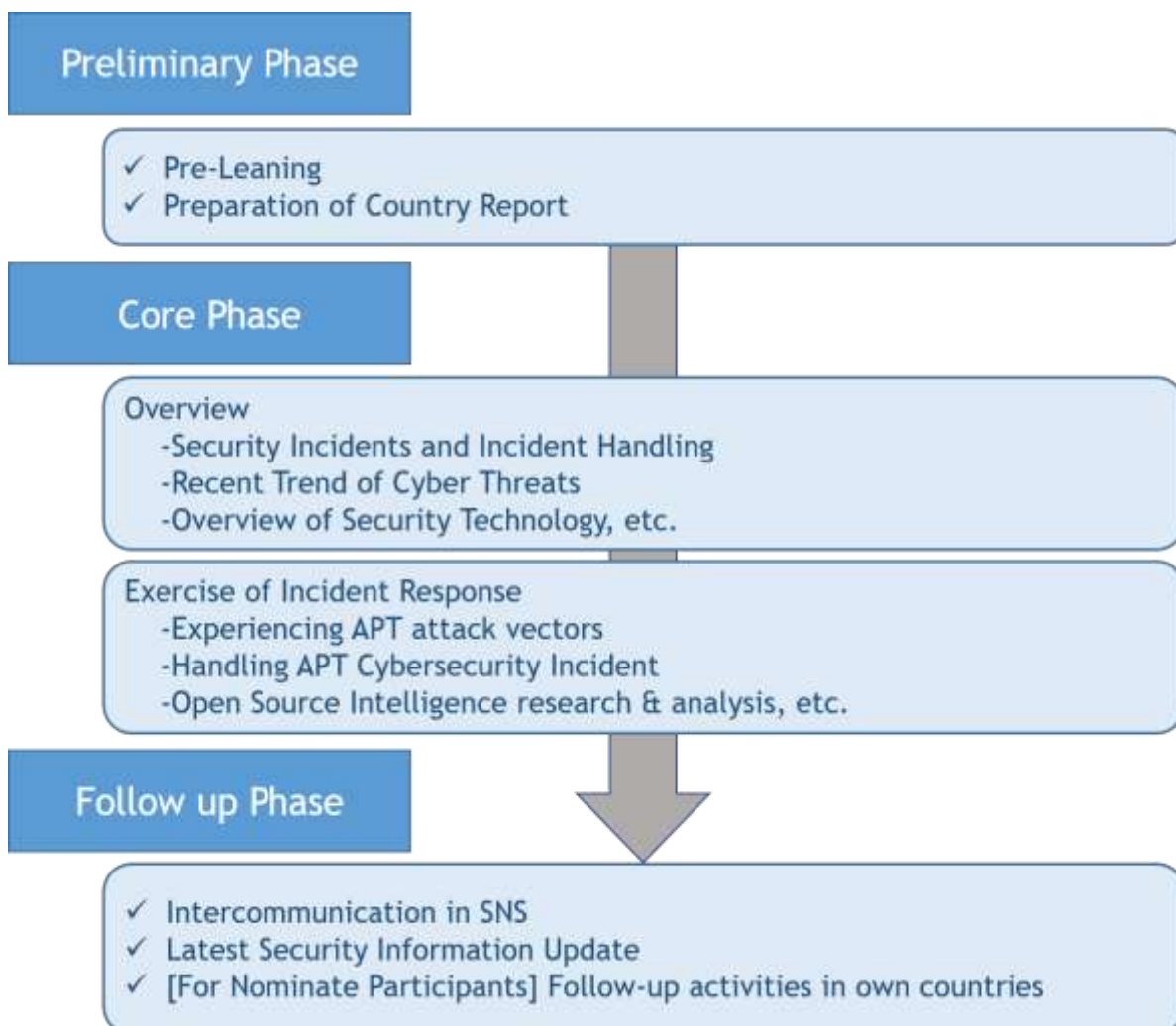
Commitment to the SDGs



Program Contents & Expected Outputs

Following diagram illustrates the program curriculum.

(*The contents may be subject to minor change.)



At the completion of this program, the participants should be able to

- ✓ Understand recent trends in cyber attacks and countermeasures,
- ✓ Understand procedures of incident handling,
- ✓ Propose action plan for improvement of incident handling response in your organization.

Program Officers

Ms. UDO Atsuko

Japan International Cooperation Agency (JICA)
Tokyo Center

Message: Hello, friends! Have you ever experienced Knowledge Co-Creation with other countries' friends on Cybersecurity? In this program, you can acquire latest and practical learning through a series of lectures and hands-on exercises to enhance your incident response capabilities. You can also enjoy our networking with other countries' cyber security experts. Looking forward to meeting you!



Ms. KAMITANI Yoshimi

Office for STI & DX, Governance and Peacebuilding Department, Japan
International Cooperation Agency (JICA)

Message: This program provides hands-on exercises for cybersecurity incidents, so it will be a good opportunity to put your knowledge into practice. We hope that you will take some new learning back from practical exercises and discussions with participants. We are looking forward to seeing you soon.



Voice from Past Program Alumni



Mr. Yan Maraden, Ex-Participant from Indonesia

I am honored to be able to participate in Knowledge Co-Creation Program "Defense Practice against Cyber Attacks" organized by JICA. This program is designed to allow participants from different countries to collaborate and share their thoughts and ideas about cybersecurity practices in their home country.

Through this program, I also have learned a lot of things about cybersecurity from security incident handling to advanced security threats. Even though the program only offered online due to the COVID-19 pandemic, it is still very effective way to share, to teach and to learn about Defense Practice against Attacks.

I personally obtained so many useful knowledge and resources that I can share with my students in the class at Universitas Indonesia. Through this program, me and other participants, we can raise level of awareness and understanding about different kinds of cyberattacks and defense at our own respective institutions.

I hope more participants of this program not only can obtain valuable information and knowledge about cybersecurity but also maintain the multinational networking, getting ready to collaborate across border and countries, as cyberattacks cannot be handled with just by one entity but by collective cooperation between countries. Stronger Together!



Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are therefore expected to use the program fully for strengthening and promoting cybersecurity measures in the country.
 - (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.
-

2. Nominee Qualifications

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

(1) Essential Qualifications

- 1) **Current Duties:** currently be a cyber incident management specialist on a governmental CSIRT (Computer Security Incident Response Team) or a national CERT (Computer Emergency Response Teams) or working in an ICT system administration department or section.
- 2) **Experience in Relevant Field:** have basic knowledge of cyber security terminology and basic skills for server and network operations.
- 3) **Educational Background:** be a graduate of university, or its equivalent.
- 4) **Language Proficiency:** have a competent command of spoken and written English proficiency. (This program 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 possible.)

- 5) **Health:** must be in good health to participate in the program. 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:** between the ages of twenty-five (25) and fifty (50) years
- 2) **Gender Equality and Women's Empowerment:** Women are encouraged to apply for the program. JICA makes a commitment to promote gender equality and women's empowerment, providing equal opportunity for all applicants regardless of sexual orientation and gender identity.

3. Pre-Requirement

The following environments & devices are required/recommended to participate this online program.

(1) Hardware

<Required>

- 1) 2 button-mouse or the pointing device equivalent operability
(Please note that right-click of installed pointing device in Apple products will not work in the virtual environment)
- 2) Audio output device such as speaker or headset
- 3) Webcam/PC camera

<Recommended>

- 4) English keyboard is strongly recommended since the exercise environment is created in English OS environment.
- 5) PC specifications and other accessories

Participants are recommended to have PC with following specifications.

Host OS spec

- OS: Windows PC
- memory 8GB + (16GB+ Recommended)
- HDD 128GB+ (SSD128+ Recommended)

Other accessories

- Full-HD (more than 1920x1080) multi monitor
- Large monitor is recommended since the large amount of log files may need to be checked during the exercises.

(2)Internet Connection

10Mbps is recommended (minimum 5 Mbps)

Please conduct speed test at the following website, and kindly provide results in screen shots, so that the best environment will be allotted to you.

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

If internet connection of your premises is not sufficient, please contact JICA overseas office for further assistance.

(3)Software

<Required>

1) LinkedIn Account

Please create your account on LinkedIn (if no account is created yet) to join our group. The details how to join our group will be emailed to accepted participants later.

<https://www.linkedin.com/>

2) Google Chrome Browser

<https://www.google.com/chrome/>

3) Zoom Client for Meeting

<https://zoom.us/download>

4) Windows On-Screen Keyboard

5) Microsoft Office Power Point

4. 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: or photocopy of other official ID to be submitted to clarify your name notation.



*The following information should be included in the photocopy:

Name, Date of Birth, Nationality, Sex

- (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) **Result of broadband speed test:** (please test with URL in 3.(2) Internet Connection)

5. 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 August 8th (MON), 2022**)

(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 26th (FRI), 2022.**

6. Additional Document(s) to be submitted by Accepted Candidates



Country Report -- to be submitted by September 19th (MON), 2022

Accepted candidates are required to prepare a Country Report (Please read Annex III for detailed information). The Country Report should be sent to JICA, preferably by e-mail to ticttee@jica.go.jp / Udo.Atsubko@jica.go.jp

7. Conditions for Participation

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) 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,
- (3) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (4) not to record or shoot the online programs and materials without JICA's permission,
- (5) not to engage in political activities, or any form of employment for profit,
- (6) 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.
- (7) 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, and
- (8) to refund allowances or other benefits paid by JICA in the case of a change in schedule.

8. Completion Requirement

Certificate of Completion will be presented by JICA when the requirements below is completed. The participants of KCCP are required

- (1) to attend 70% of the program,
- (2) to submit all the assignment (reports and questionnaire) as requested by JICA.

Administrative Arrangements

1. Organizer (JICA Center in Japan)

- (1) Center: JICA Tokyo Center (JICA TOKYO)
- (2) Program Officer: Ms. UDO Atsuko (Udo.Atsuko@jica.go.jp)

2. Implementing Partner

Under Planning

3. Expenses

The following expenses will be provided by JICA:

- (1) Daily Allowances and Transportation Expenses
- (2) Expenses for program implementation, including materials

4. Reference Information

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=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=1iBQgdpXQb4
Part II: Introduction of JICA Centers in Japan	
JICA Tokyo	https://www.jica.go.jp/tokyo/english/office/index.html

Annex I

Expected Target Organizations

No	COUNTRY	ORGANIZATION
1	Armenia	The Ministry of High-Tech Industry
2	Botswana	Ministry of Transport and Communications
3	Egypt	Ministry of Communications and Information Technology
4	Pakistan	Ministry of Information Technology and Telecommunication Intelligence Bureau
5	Vietnam	Authority of Information Security
		Ministry of Information and Communications Vietnam Computer Emergency Response Team
6	Zimbabwe	Ministry of ICT and Courier Service
		e-Enabled & Cyber-based Services, Office of the President

Annex II

Past Program Schedule of 2021 (for reference)

DAY	CATEGORY	CONTENTS
Day 1	Administration	Program orientation
	Administration	Examination to measure current skill level
	Lecture	Security incidents and incident handling
Day 2	Lecture	Recent trend of cyber threats
	Hands-on Exercise	Open Source Intelligence research and analysis
Day 3	Overview	Overview of security technology
Day 4	Day off	
Day 5	Day off	
Day 6	Hands-on Exercise	Experiencing APT attack vectors 1
Day 7	Hands-on Exercise	Experiencing APT attack vectors 2
Day 8	Hands-on Exercise	Handling APT cyber security incident 1
Day 9	Hands-on Exercise	Handling APT cyber security incident 2
Day 10	Administration	Assessment examination
	Administration	Introduction to follow up phase
	Administration	Questionnaire
	Administration	Feedback session & Closing ceremony

Annex III

For Accepted Participants Only

Country Report

1. Objectives:

The aim of Country Report is to share the current situation and issues of cybersecurity incidents in participant's organization or country with Japanese experts and other participants.

2. Presentation:

Participant will deliver a presentation at the beginning of the program. Please note that you may include the main contents below in your materials **(Power Point, maximum 10 slides)** and presentation.

The detailed format of presentation will be shared after notification of acceptance later.

- (1) Personal introduction & career history
- (2) Roles of your organization
- (3) Cybersecurity implementation & Security information sharing system in your country
- (4) Current situations & issues/challenges on Cybersecurity
- (5) Expectations toward the program

***Due date for submission: SEPTEMBER 19th (MON), 2022.**

(To: tictree@jica.go.jp / Udo.Atsuko@jica.go.jp)

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

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

("81" is the country code for Japan, and "78" is the local area code)