



# AJCCBC Project Overview

**(ISC)<sup>2</sup> Bangkok Chapter  
Official Announcement 2022  
22<sup>nd</sup> February 2022**

# What is AJCCBC?

The **9th ASEAN-Japan Information Security Policy Meeting** in 2016 noted that a shortage of cybersecurity professionals will become more serious in the coming years since many organizations and institutions increasingly conduct their communication, processes and businesses on-line, in many cases exclusively. Cyber-attacks have been continuously happening all over the ASEAN region, and the cyber-attack techniques have been advancing rapidly.

Recognising the importance of strengthening cooperation among ASEAN and Japan on cybersecurity development and capacity building initiatives, the 12<sup>th</sup> ASEAN Telecommunications and Information Technology Ministers Meeting with Japan (**12<sup>th</sup> TELMIN+Japan**)<sup>1</sup>, in Siem Reap, Cambodia, 2017, agreed on the establishment of the **ASEAN-Japan Cybersecurity Capacity Building Centre (the Centre) in Bangkok**.

The ASEAN-Japan Cybersecurity Capacity Building Centre (AJCCBC) was established under the guidance of TELMIN/SOM in 2018 and funded by Japan ASEAN Integration Fund (JAIF 2.0) for **\$5M** to advance the competence of those involved in cybersecurity, particularly from the **governmental agencies** and the **Critical Information Infrastructure** operators. The objective of the Centre is to develop a cybersecurity workforce of **700+** over **4 years** to enhance the capacity of cybersecurity experts and specialists in the AMS by providing them with professional trainings in Incident Response, Malware Analysis and Network Forensics and other relevant activities.

# Alignment with Master Plan

## AEC Blueprint 2025

AJCCBC contributed to the enhancement of capacity development within ASEAN, which aligned with the AEC Blueprint 2025 in C. Enhanced Connectivity and Sectoral Cooperation (C.2 Information and Communications Technology)



- v. Human Capital Development: Strengthen the professional development of the ICT workforce in the region;

## THE ASEAN ICT Masterplan 2020

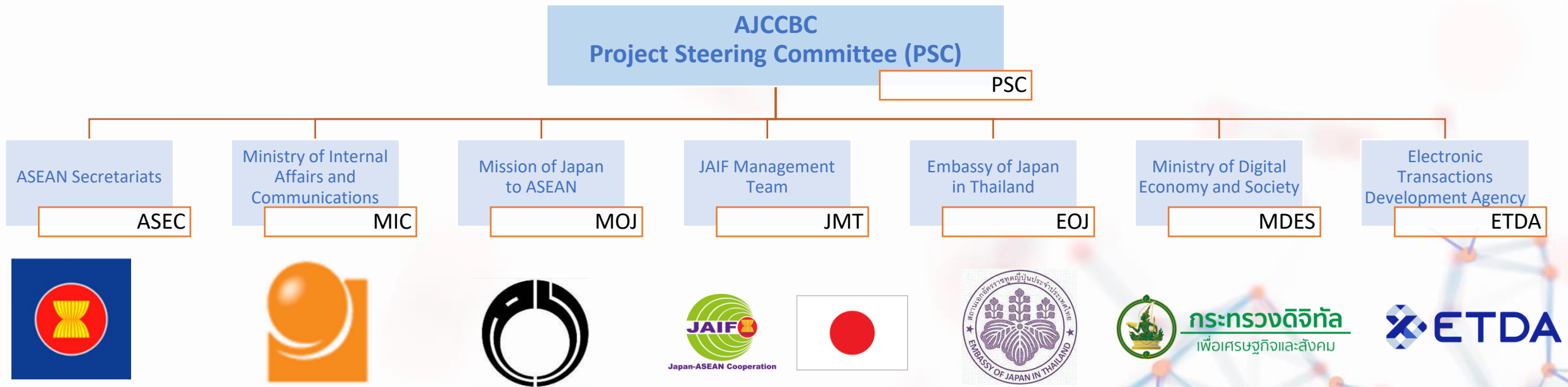
### 8. Information Security and Assurance



Initiative 8.1 Strengthen Information Security in ASEAN <i>Create a trusted ASEAN digital economy</i>		
ACTION POINT	DESCRIPTION	TARGET/PROJECT
8.1.1 Develop Regional Data Protection Principles	Promote data protection in ASEAN by establishing regional guidelines	1. Commission a study that compares personal data privacy protection frameworks across AMS. The study will identify current practices, develop case studies, and disaggregate issues across different levels – local, national, cross-border and ASEAN 2. Develop an ASEAN guideline or framework for personal data protection
8.1.2 Develop Regional Network Security Best Practices	Identify and develop baseline ICT network security principles and promote their use within ASEAN	Develop best practice guide for information and network security in ASEAN, including cloud computing
8.1.3 Develop Regional Critical Information Infrastructure Resilience Practices	Identify critical information infrastructures that have strategic imperatives and develop coordinated approaches to protection in the event of cyber-attacks	Commission a report to identify existing critical information infrastructures and suggest best approaches to coordinated protection and response

Initiative 8.2 Strengthen Information Security Preparedness in ASEAN <i>Improve cyber emergency responses and collaboration</i>		
ACTION POINT	DESCRIPTION	TARGET/PROJECT
8.2.1 Strengthen Cyber Incident Emergency Response Collaboration	Encourage cooperation to create a well-functioning network of CERTs to enable real-time responses to online security breaches	1. Conduct a feasibility study on establishing an ASEAN CERT, including looking at possible ownership models – whether by AMS government or through Public-Private Partnership (PPP) 2. Develop an Incident Reporting Framework, including templates and standardised responses to pre-identified 'threat levels' and attach types 3. Promote regular cyber security collaboration and dialogue between governments, business community and citizens through joint awareness-raising campaigns and the exchange of relevant materials

# AJCCBC's Relevant stakeholders



# Center's Facility

<b>Training facility</b> (Training & Cyber SEA Game)	40 seats
<b>Seminar</b>	60 seats
<b>Co-working Space</b>	30 seats
<b>Computer and peripherals</b>	27 Units
<b>Management Office</b>	10 seats
<b>Server and Cloud services</b>	2 Units

ASEAN-Japan Cybersecurity Capacity Building Centre : AJCCBC  
The 9th Tower Grand Rama9 Building (Tower B) Floor 15  
33/4 Rama 9 Road, Huai Khwang, Bangkok 10310



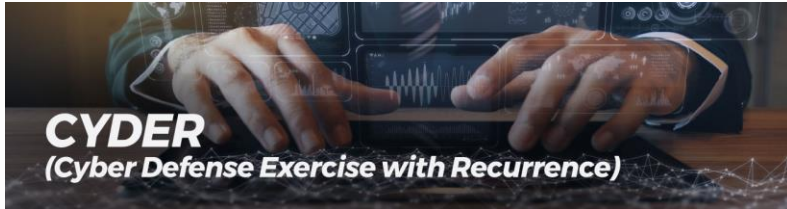
[AJCCBC Virtual Tour](#)

# AJCCBC Timeline

- AJCCBC was established in June 2018 and has accomplished its step 2-1 in June 2021.
- AJCCBC Step 2-2 has been approved in June 2021 and has been operated ever since.
- AJCCBC proposal to extend the operation period beyond 2022 has been approved.



# AJCCBC Training Courses



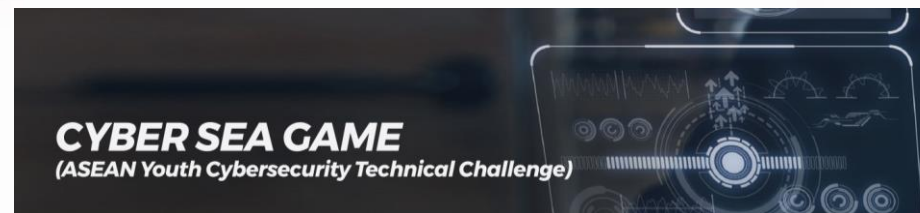
based on "practical cyber defense exercises (CYDER)" carried out in the MIC, Japan which focuses on the improvement of the incident response ability to correspond against the cyberattacks, participants can experience and learn the method of incident handling based on an actual cyberattack.



provides the participants key skills in network forensic techniques including how attackers attack servers in DMZ, how attackers attack client's computers etc. which is based on simulation attack.



provides you key skills in how to assume the behavior of malware and its impacts by surface analysis, how to identify the behavior of malware and its impact by dynamic analysis, how to identify the actual behavior of malware and its impact by static analysis.

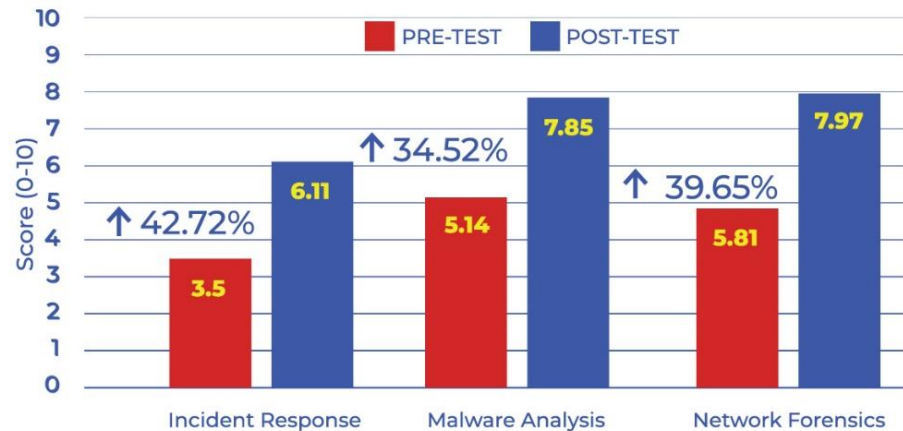


A Technical contest in the form generally called CTF (Capture the Flag), a special kind of cybersecurity competition designed to challenge its participants to solve computer security problems, where young generation of cybersecurity professionals can develop cybersecurity-related skills as well as make connections with each other.

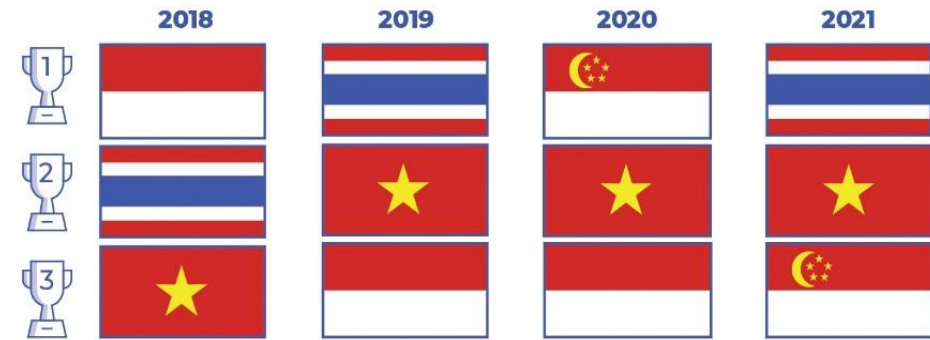
# AJCCBC Overall Results (2018 – January 2022)

- The Centre delivered **760** AMS Participants from **18** training sessions (Courses include Incident Response, Malware Analysis, and Network Forensics), **4** Cyber SEA Games, and **2** workshops.

## AMS Cyber Improvement



## Cyber SEA Game Champions



The comparison between pre-test and post-test suggests that the capacity of the personnel was remarkably enhanced:

- Incident Response increased from 3.5 to 6.11 out of 10.
- Malware Analysis increased from 5.14 to 7.85 out of 10.
- Network Forensics increased from 4.81 to 7.97 out of 10.

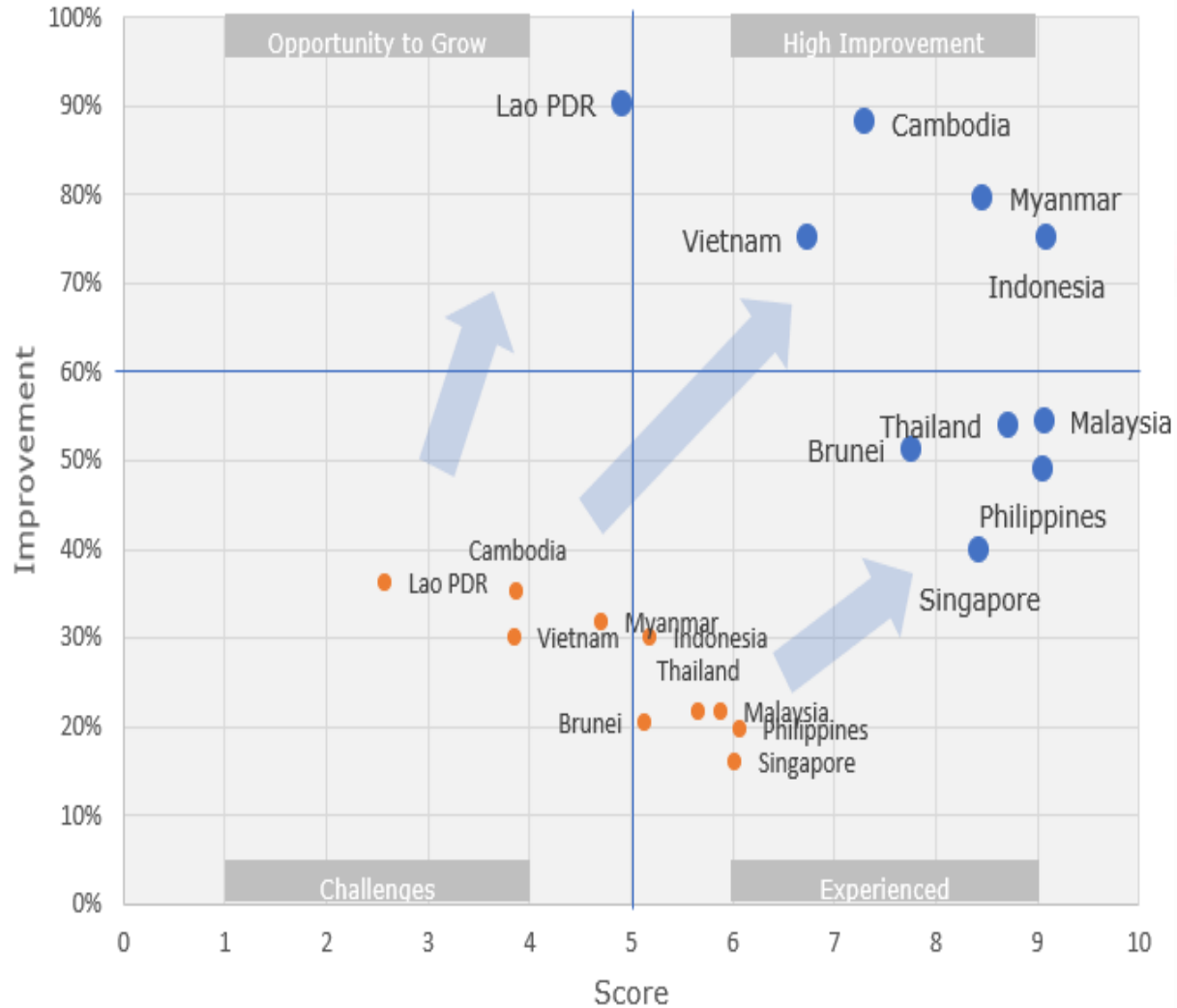
Four Cyber SEA Games were conducted and the winners of each year are:

- 2018: Winner: Indonesia, Runner Up: Thailand, 2<sup>nd</sup> Runner Up: Vietnam
- 2019: Winner: Thailand, Runner Up: Vietnam, 2<sup>nd</sup> Runner Up: Indonesia
- 2020: Winner: Singapore, Runner Up: Vietnam, 2<sup>nd</sup> Runner Up: Indonesia
- 2021: Winner: Thailand, Runner Up: Vietnam, 2<sup>nd</sup> Runner Up: Singapore

*Note: The project duration was extended from 24 months to 36 months. Since some trainings had to be conducted online, the budget for Airfare and Per Diem not utilized in on-site trainings were realigned for system preparation for online trainings.*



# AJCCBC Overall Results (2018 – January 2022)



Based on the comparison between pre-test and post-test, there are three different groups:

1. The group with the opportunity to grow, including *Lao PDR*.
2. The group with high improvement, including *Cambodia, Myanmar, Vietnam, and Indonesia*.
3. The group with most experiences, including *Brunei, Thailand, Malaysia, Vietnam, Philippines, and Singapore*.

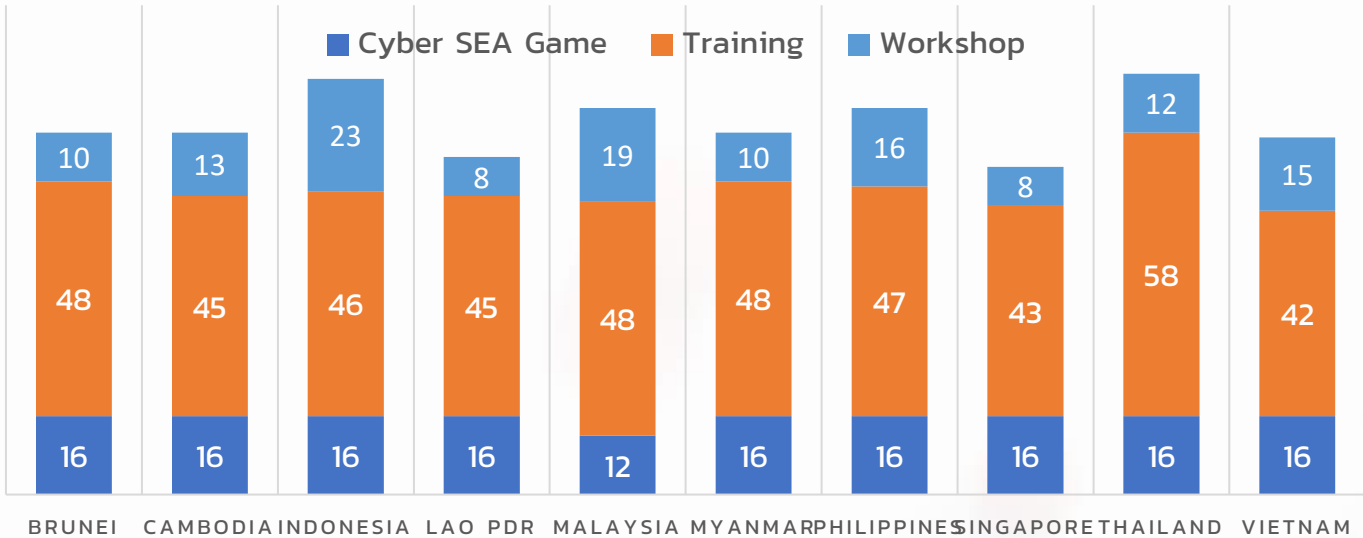
# RESULTS

## of Participants

Since the project commencement date (June 2018), AJCCBC has trained **760** participants from ASEAN Member States. The participants are government officials and critical information infrastructure operators.

The Centre has now accomplished the objective of training 700 AMS personnel yet will keep providing the trainings for the benefits of the region.

### JUNE 2018 – JANUARY 2022



**Participants from AMS**  
**760/700**

**Training Sessions**  
**18/24**

**Annual Cyber SEA Games**  
**4/4**

**18** Training Sessions      **4** Cyber SEA Games      **2** Workshops

# Training Sessions

## Objectives

- Improve ability and preparedness of network administrators in cybersecurity incident handling training
- Improve ability for undertaking the forensic and malware analysis

## Achieved

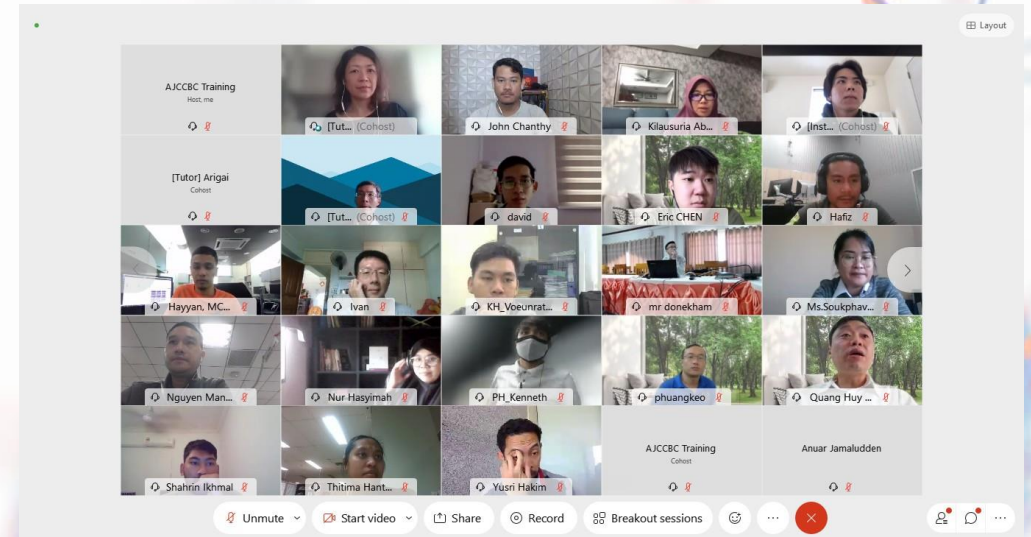
AJCCBC successfully conducted 18 training sessions and other related activities to improve capabilities in

- (1) cybersecurity incident handling
- (2) forensic analysis
- (3) malware analysis

for **470** AMS participants.



10th Training (on-site)



14th Training (online)

# Cyber SEA Games

## Objective

Raise awareness of the need for expertise, recognition for talents and enhanced knowledge through sharing on cyber security

## Achieved

AJCCBC successfully conducted 4 Cyber SEA Games: 2018, 2019, 2020 and 2021 Cyber SEA Games for **156** AMS participants.



Cyber SEA Game 2019 (on-site)



Cyber SEA Game 2021 (online)

# Cyber SEA Games 2021

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ETDA  
AJCCBC  
JAIF  
MIC

**CYBER 2021 SEAGAME**  
ASEAN | SECURITY CONTEST | CAPTURE-THE-FLAG | By AJCCBC  
This Project is Supported by Japan-ASEAN Integration Fund (JAIF 2.0)

**1<sup>st</sup> Award Thailand**

### Ranking

11/26 10:00 — 11/26 17:20 — 11/26 15:00

14:55:47 bongtrop(Thailand) solved AutoUnattend(100).  
 14:54:17 sweetie(Myanmar) solved Unlock(170).  
 14:50:51 svuan(Singapore) solved CAPTCHA(150).  
 14:40:50 BRNL\_Mason Chong Yi Tian(Brunei) solved structure(150).  
 14:39:30 Kaitorque(Malaysia) solved structure(150).  
 14:36:00 haupu(Vietnam) solved Spoofing(220).  
 14:20:22 bongtrop(Thailand) solved AndroidApp(150).

Rank	Team	Score	Total Score
1	Thailand	3070	3070
2	Vietnam	2880	2880
3	Singapore	2650	2650
4	Brunei	2220	2220
5	Indonesia	1750	1750
6	Malaysia	1110	1110
7	Myanmar	1090	1090
8	Philippines	920	920
9	Cambodia	810	810
10	Laos	530	530

Total

# Participant Engagement Statistic

## AJCCBC Online Platform

## The Number of Engagement



Alumni list

**800+** Alumni



Alumni's Facebook private group

**159** members



Official Facebook page

**434** likes **479** followers



Official LinkedIn page

**41** followers




Engagement hub

In progress

# AJCCBC Activity Update

## Project Continuation: Activity Plan 2022



Activity	Expected Period of Activity	Format	Course
Training 18	10 – 14 January 2022	Online	Incident Response & Malware Analysis
Online CTF Course	12 January – 11 March 2022	Self-learning	Cyber Investigations
Exercise For SOC Analysts	7 – 11 February 2022	Online	Security Operation Center
Cybersecurity Awareness Self-learning	15 February 2022	Self-learning	Cyber Awareness
Training 19	21 – 25 February 2022	Online	Incident Response & Network Forensics
Secure Provision	14 – 15 March 2022	Online	Secure Provision (Software Development)
Training 20	25 - 29 April 2022	Online	Incident Response & Malware Analysis
Training 21	13 - 17 June 2022	Online/On-site	Incident Response & Network Forensics
Training 22	1 - 5 August 2022	Online/On-site	Incident Response & Malware Analysis
Training 23	3 - 7 October 2022	On-site	Incident Response & Network Forensics
Cyber SEA Game 2022	10 - 11 November 2022	On-site	Cyber SEA Game
Training 24	19 - 23 December 2022	On-site	Incident Response & Malware Analysis

*Note: The on-site activity plan proposed may be changed according to COVID-19 situation.*

# AJCCBC Post-2022

## Project

Project for Enhancing ASEAN-Japan Capacity Building Programme for Cybersecurity and Trusted Digital Services



## Objectives

To continue the Centre's activities, which are built upon the AJCCBC existing project, to provide capacity building programmes at the Centre to fulfil AMS' training needs and support the desired outcomes of the ADM 2025 through activities such as: on-site or online cyber incident response exercise, malware analysis, digital forensics, and trusted digital services courses, Cyber SEA Games, workshops, conferences, and seminars.

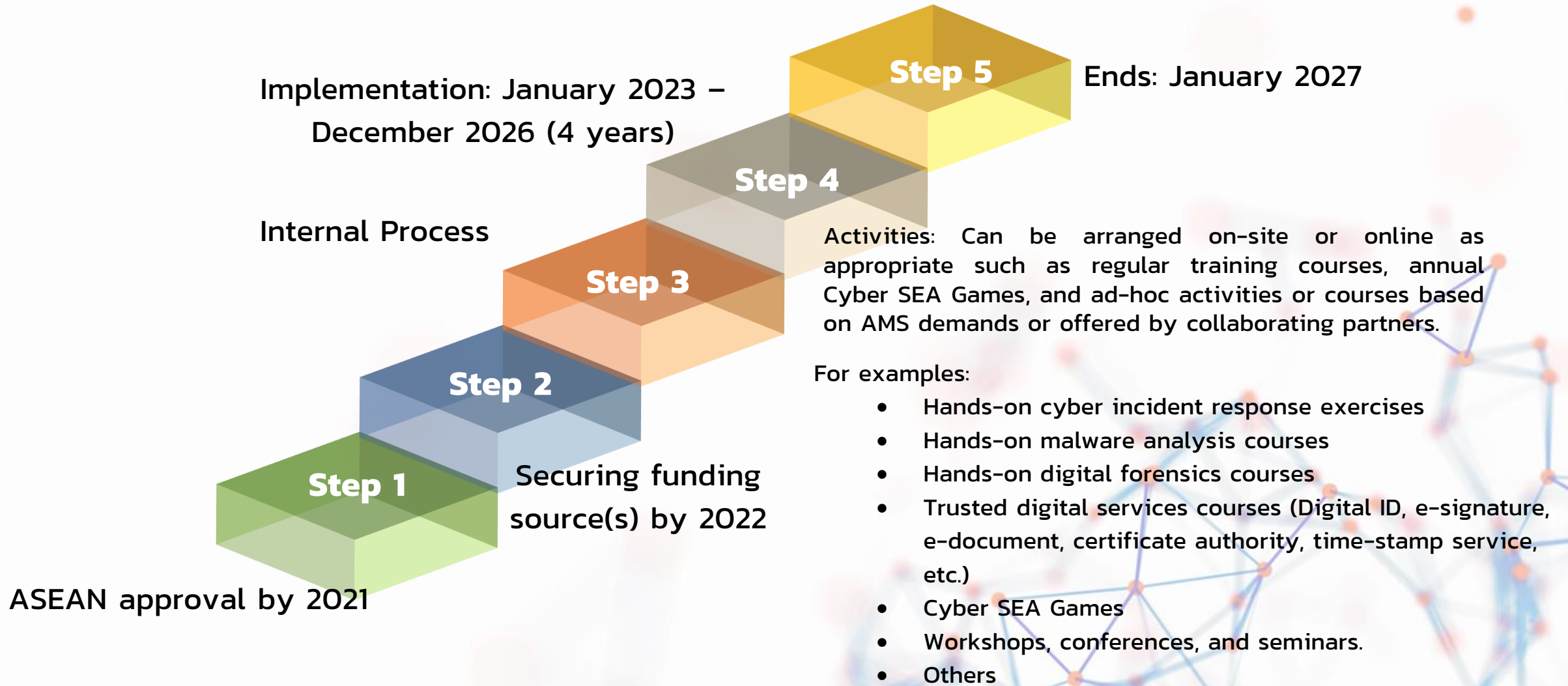
## Funding

Estimate USD 5M Under discussion with ASEAN Dialogue Partner-Japan (JICA) and contribution by Thailand

Note" Desired Outcomes (DOs) of the ADM 2025 DO 3: The delivery of trusted digital services and the prevention of consumer harm, DO 6: Digital services to connect business and to facilitate cross-border trade, DO 7: Increased capability for business and people to participate in the digital economy



# Post-2022 Project Plan



# AJCCBC Third-Party Collaboration

- **Swiss Proposal : 2-day intermediate level course on “Secure Provision” (Software Development)**

## Organisation

The University of Applied Sciences and Arts of Southern Switzerland (SUPSI) and In The Cyber Group SA (private sector).

## Purpose

Secure programming course peculiarity is to provide not only the knowledge of the best practices, instead, it will be shown to attendees the “attacker perspective” against vulnerable applications, providing a unique view on the possible issues and the real associated risk generated by the usage of bad coding practices.

- **CISA Proposal : 1.5-day CSET Exercise**

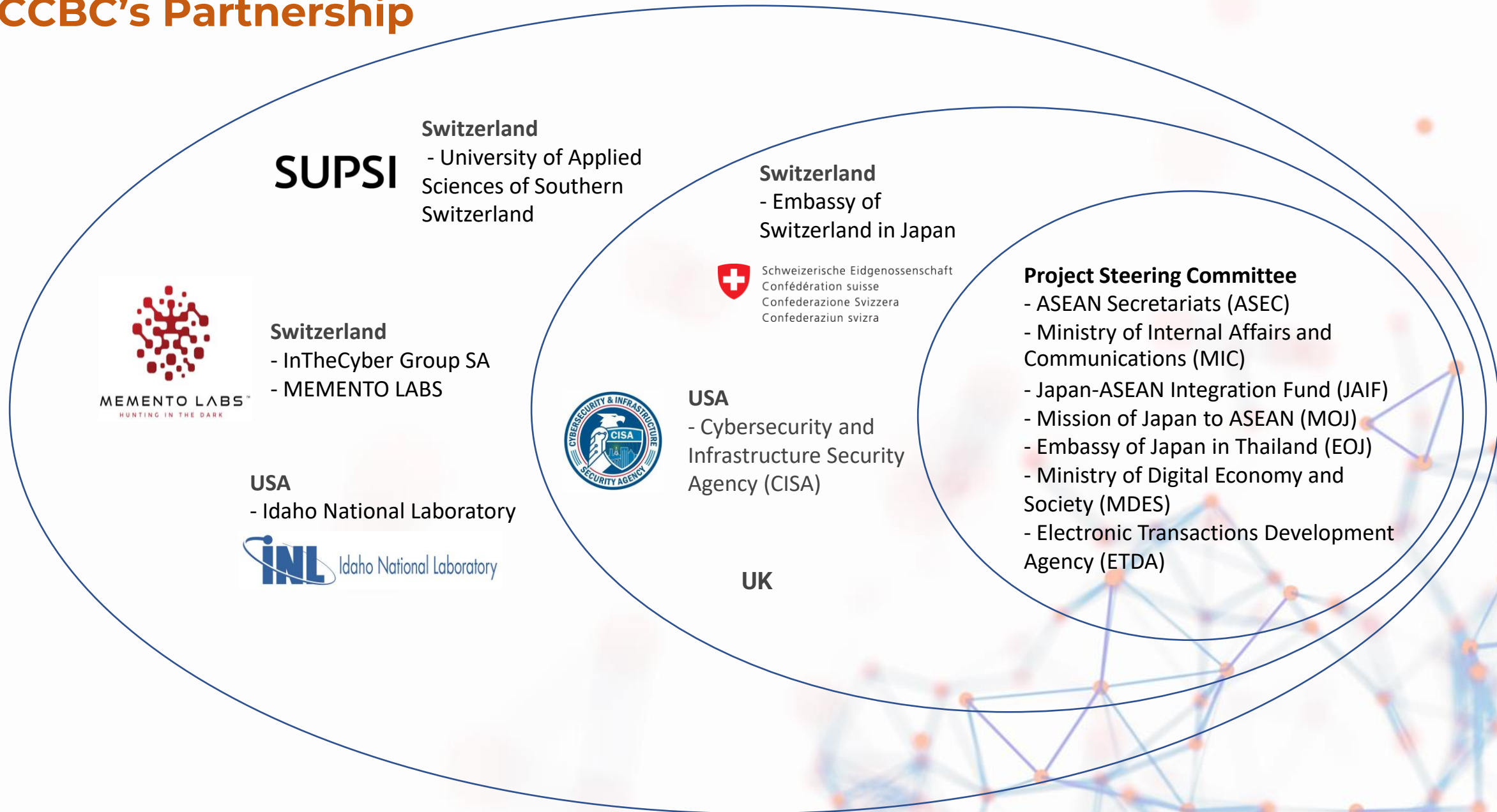
## Organisation

CISA (CYBERSECURITY & INFILTRATION SECURITY AGENCY) of the USA Department of Homeland Security.

## Purpose

To provide learners from CII operators with knowledge on how to use CSET tool and how to conduct organization assessment effectively.

# AJCCBC's Partnership



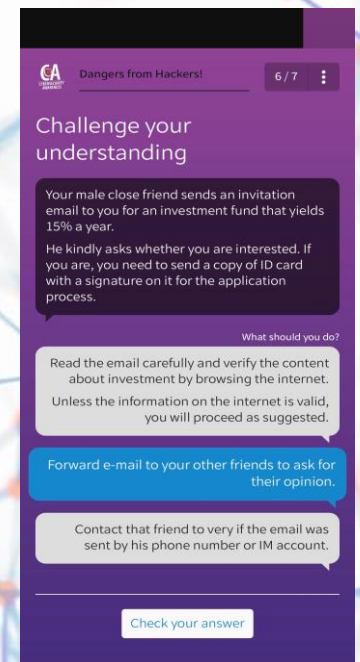
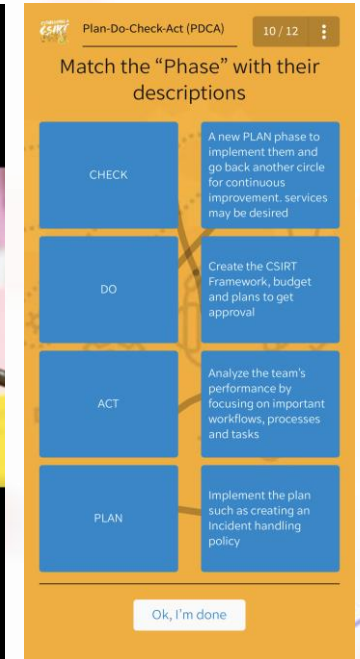
# AJCCBC Self-Learning Courses

Amidst the pandemic, the Centre decided to leap forward by exploring more into the online world by trialing new formats for learning as micro-learning or self-learning courses, where the participants can learn anywhere and anytime at their convenience through a platform called EdApp.

- Course Title: 1.) Establishing a CSIRT 2.) Cybersecurity Awareness
- Format: Online self-learning course on **EdApp**
- Learning Period: Available until 18<sup>th</sup> April 2022.
- Price: free-of-charge, supported by ETDA

<https://go.ajccbc.org/cyberawareness>

ISC2 Bangkok Chapter on 22<sup>nd</sup> February 2022



# AJCCBC Social Networks & Promotional Video



**ENHANCING  
CYBERSECURITY  
PROFESSIONALS  
IN ASEAN**

**AJCCBC**  
ASEAN JAPAN CYBERSECURITY  
CAPACITY BUILDING CENTRE  
Partnership by ASEAN and Japan

**ASEAN-Japan Cybersecurity Capacity Building Center**  
The mission of AJCCBC is to develop the cybersecurity workforce in ASEAN Member States  
Non-profit Organization Management · Bangkok, Bangkok · 41 followers

See 1 employee on LinkedIn

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**AJCCBC**  
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CAPACITY BUILDING CENTRE  
Partnership by ASEAN and Japan

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Capacity Building Centre**  
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# International Publication: Global Cyber Expertise Magazine Issue 10

The Global Cyber Expertise Magazine is a bi-annual magazine on global cyber policy developments and capacity building projects. The Magazine is jointly published by the African Union, the European Union, the Global Forum on Cyber Expertise (GFCE) and the Organization of American States.

AJCCBC, as a member of the **Global Forum on Cyber Expertise (GFCE)**, has submitted an article to obtain more recognition in Issue 10 of Global Cyber Expertise Magazine On Cybil online platform. The article was published in November 2021.



Cybil  
Cyber Capacity Knowledge Portal

[INTRODUCING THE ASEAN-JAPAN CYBERSECURITY CAPACITY BUILDING CENTRE \(AJCCBC\)](#)

# ISACA Journal Vol.3

ISACA is the Journal that provides important information on industry advancements and professional development to those involved in the IS audit, information security and governance communities.

The Centre has submitted an article on **ASEAN Region's Resilience in Capacity Building**, pertaining **project background** and **programme development through the pandemic with resilience** to be published in the ISACA Journal Vol 3 in May/June 2022. The article is now going through second peer review process after it was initially review recently.



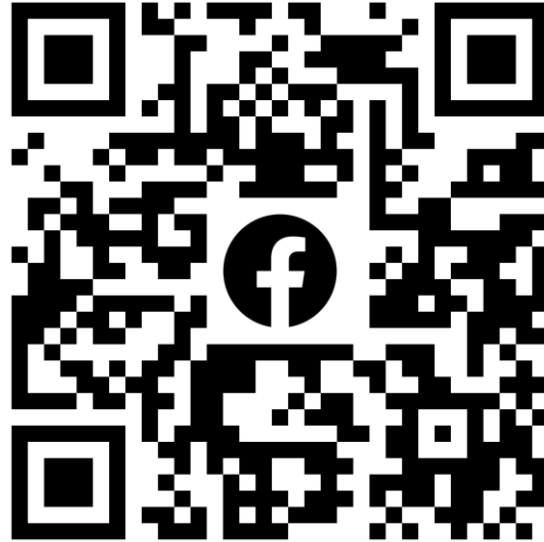
# List of References

## ONLINE SOURCES

**[www.ajccbc.org](http://www.ajccbc.org)**

AJCCBC Official Website

**AJCCBC Facebook Page**



**AJCCBC LinkedIn Page**



**AJCCBC Facebook Group Member**

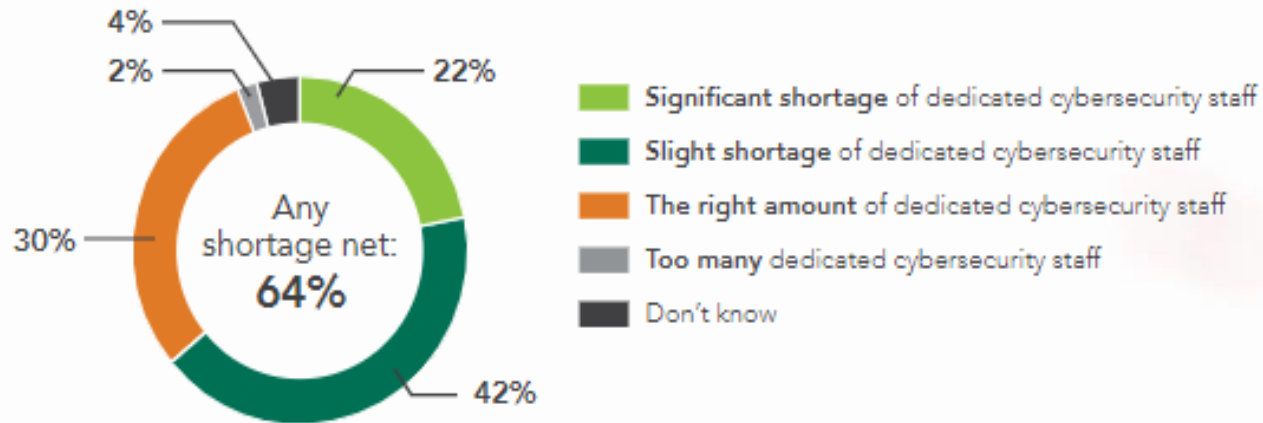
Alumni's Closed group

**AJCCBC Engagement Hub**

AJCCBC Activities and Documents Archive



# The Cybersecurity Workforce Gap by Region



A cybersecurity workforce shortage has become a major issue around the world as indicated in the **ISC2 Workforce Study 2020**. The study suggested that **64%** of organizations have encountered or are on the verge of encountering cybersecurity staff shortage while cyber threats have been advancing and have become unavoidable.

Reference: (ISC)<sup>2</sup> CYBERSECURITY WORKFORCE STUDY, 2020

The global gap in the cybersecurity workforce varies by region, dominated by a gap of more than 2 million in the Asia-Pacific region.



The study suggested that **Asia-Pacific region** has a cybersecurity workforce gap of more than **2.045** million, being the widest gap compared to other regions worldwide.