



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ICAO MID DGCA/ 6 Meeting

1 to 3 November 2022 Abu Dhabi - UAE



*Improving Aviation Security through Assistance
and Training*

*ICAO Implementation Support and Development –
Security Programme (ISD-SEC)*



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



Outline

- ISD-SEC Programme
- ICAO ASTC Network
- ICAO AVSEC Certified Instructors Cadre
- ICAO AVSEC Training Materials
- Cybersecurity Training
- Training Achievements 2021/2
- Impact from the Pandemic
- Assistance Achievements 2021/2
- Regional Initiatives and Partnerships Support
- Security Culture



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ISD-SEC Programme 1/4

Aviation security assistance and training at ICAO is supported on a global basis by the **Implementation Support and Development Section - Security (ISD-SEC)**, in coordination with the Regional Offices and the Technical Cooperation Bureau.

ISD-SEC is also guided by the requirements of the **Global Aviation Security Plan (GASeP)** adopted by the ICAO Council at its 212th Session in November 2017 to support global aviation security enhancement efforts.



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ISD-SEC Programme 2/4

Pursuant to Assembly Resolutions A41-18, Consolidated statement on continuing ICAO policies related to aviation security, and A40-12, Declaration on aviation security – affirming global commitment to strengthening implementation, **the ICAO Secretariat aims to implement targeted training and assistance to address identified aviation security deficiencies for those States in need** and for those States who wish to build their capabilities to sustain effective implementation of Annex 17 – *Aviation Security*.

The importance of aviation security was also reaffirmed with the adoption of the **United Nations Security Council resolution (UNSCR) 2309** (2016) calling on ICAO to assist States in complying with international aviation security standards.



ISD-SEC Programme 3/4

AVSEC Assistance and Capacity Building Strategy

The ICAO Aviation Security Assistance and Capacity Building Strategy was updated in **2020**, with emphasis on:

- Supporting compliance with ICAO AVSEC SARPs;
- Addressing priority deficiencies in State aviation security and oversight regimes and promoting long-term sustainability;
- Ensuring that States enhance their capacity to address evolving threats and new security requirements;
- Managing cooperation and collaboration with key stakeholders; and
- Supporting ICAO's global aviation security commitments.



ISD-SEC Programme 4/4

2021
Year of Security Culture

SECURITY CULTURE Workshop

The year 2021 has been declared 'The year of Security Culture'. Security is everyone's responsibility, it does not only belong to the security officials. From screeners to cleaners, and from taxi drivers to those working in airport retail outlets, all have a vital contribution to improve aviation security.

06 SEPTEMBER 2021
10:00 – 12:00

Microsoft Teams

This workshop will outline what is 'Security Culture' and your role in building a Strong security culture in your Aviation Organisations.

RSVP
Shree Singh | Singhs@caa.co.za

www.caa.co.za | [SACAA](https://www.facebook.com/SACAA) | [OfficialSACAA](https://www.instagram.com/OfficialSACAA) | [OfficialSACAA](https://www.linkedin.com/company/SACAA) | South African Civil Aviation Authority – SACAA

Despite the challenges from the COVID-19 pandemic, ISD-SEC continued to adapt its work programme, focusing on the virtualization of much of its aviation security training, alongside the roll out of **new and updated training material** and the **Aviation Security Implementation Package (AVSEC iPack)**.

There has also been a heavy focus on the provision of security culture training and assistance in support of the **ICAO Year of Security Culture (YOSC) 2021**.



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ICAO Aviation Security Training Centre Network

NACC & SAM

Bogota
Buenos Aires
Mexico City
Port of Spain
Quito
Santo Domingo

EUR/NAT

Almaty
Casablanca
Doncaster
Dublin
Kyiv (2)
Minsk
Moscow
Toulouse
Tunis

ESAF & WACAF

Dakar
Dar es Salaam
Douala
Johannesburg
Lagos
Nairobi

MID

Amman
Beirut
Cairo
Dubai
Jeddah
Manama

APAC

Auckland
Hong Kong
Jakarta
Kuala Lumpur
Kunming
New Delhi
Seoul
Singapore

36 active ASTCs in total



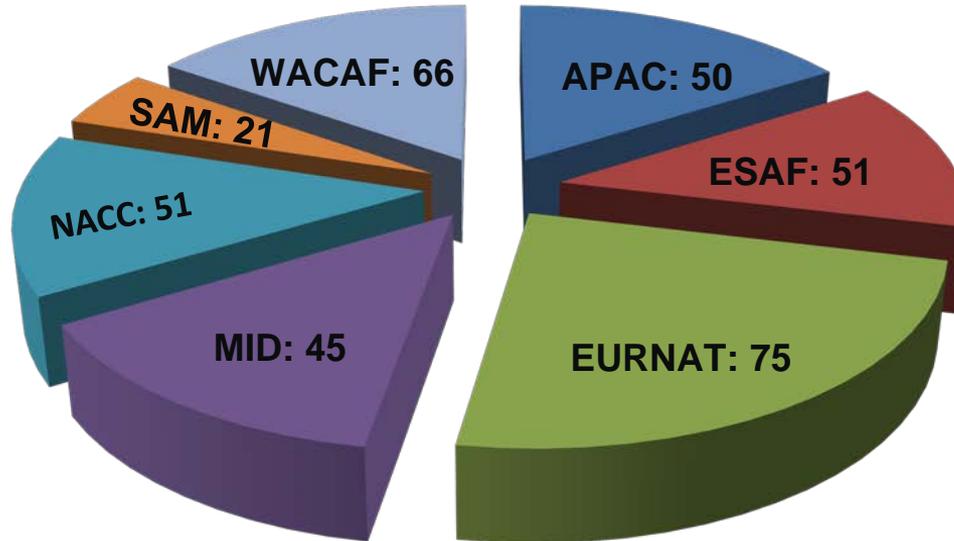
General Requirements for Establishing and Maintaining Recognition as an ICAO Aviation Security Training Centre (ASTC)

- ISD-SEC manages the ASTC Network in coordination with the Global Aviation Training (GAT) Section
- Procedure for new ASTC applicants harmonized with GAT: any new ASTCs must first become an active member of TRAINAIR PLUS (subsequently receive an ASTC evaluation by ISD-SEC and ASTC endorsement when satisfactory)
- ASTC delivers: ICAO-sponsored, ASTC-hosted regional, ASTC national and Online courses
- ASTC uses: ICAO name, emblem, logo, training materials and certificates
- ASTC is required to use ICAO-certified AVSEC instructors for ICAO-sponsored and ASTC-hosted regional training
- ISD-SEC re-evaluates ASTCs every 5 years



ICAO-certified AVSEC Instructors Cadre – by Region

Total: 359 Instructors from 103 Member States



Female: 98 (27.3%)

Male: 261 (72.7%)



ICAO AVSEC Training Materials

Six Aviation Security Training Package (ASTP) Courses:

- Air Cargo and Mail Security *
- Airport Security Supervisors *
- AVSEC Managers *
- AVSEC National Inspectors
- AVSEC National Instructors
- Basic – being updated

*Also available in virtual format

<https://www.icao.int/Security/isd/Training/packages/pages/default.aspx>



*AVSEC Supervisors Course, given by ASTC
Seoul in May 2021*



ICAO AVSEC Training Materials

Nine Workshops:

- Airport Security Programme *
- Crisis Management *
- Insider Risk
- National Aviation Security Certification System
- NCASP
- NCASTP
- NCASQCP *
- Risk Management *
- Security Culture *

* Also available in virtual format



*Security Culture Workshop,
piloted by ASTC Hong Kong in June 2021*



New Training Materials – Insider Risk

ICAO Insider Risk Workshop:

- 2 pilot sessions were validated in 2022
- Principles of risk management applied to Insider Threat scenarios
- Security countermeasures to mitigate the Insider Threat
- Practical exercises

ICAO Insider Threat Toolkit (released in Aug 2022):

- insider threat mitigation measures, tools
- supports a wider understanding of security culture and its evolution

<https://www.icao.int/Security/Security-Culture/Pages/ICAO-Insider-Threat-Toolkit.aspx>





الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ICAO AVSEC Training Materials

Two joint Programmes:

- ACI-ICAO Management of Airport Security *
- AVSEC Professional Management Course (AVSEC PMC) in collaboration with Concordia University *

* Also available in virtual format

<https://www.icao.int/Security/isd/avsecpmc/Pages/default.aspx>



Classroom and virtual courses



ICAO AVSEC Training Materials

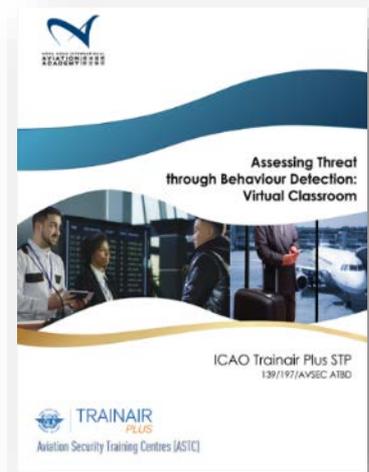
ICAO partners with Bucks UK and HKIAA:

- MSc in Aviation Security (with Buckinghamshire New University)
- Assessing Threat through Behaviour Detection (with Hong Kong International Aviation Academy)

<https://igat.icao.int/ated/TrainingCatalogue/>



Virtual courses



Classroom and Virtual courses

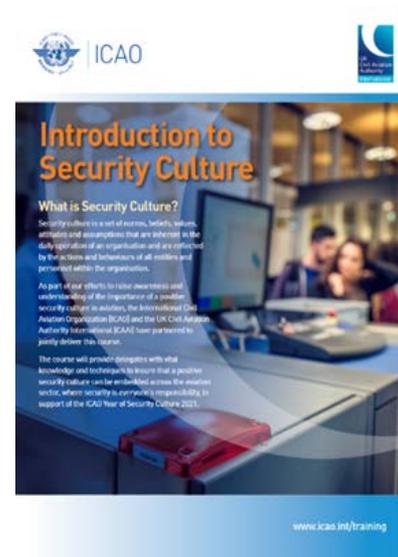


ICAO AVSEC Training Materials

ICAO partners with UK Civil Aviation Authority International (UK CAAi)

- Introduction to Security Culture
- CAA Operational recovery during a Pandemic

<https://igat.icao.int/ated/TrainingCatalogue/>



Virtual courses



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY

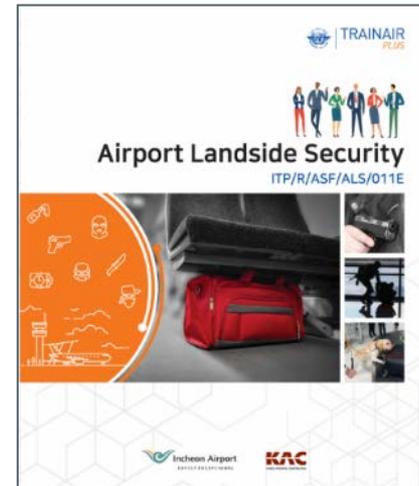


ICAO AVSEC Training Materials

ICAO partners with Incheon Airport
Aviation Academy (IAAA)

- Airport Landside Security

<https://igat.icao.int/ated/TrainingCatalogue/>



Classroom



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ICAO AVSEC Training Materials

ICAO partners with EUROCONTROL
Institute of Air Navigation Services,
Luxembourg:

- Conducting an ATM Security Risk Assessment
- Managing Security in Air Traffic Management (ATM) Course

<https://igat.icao.int/ated/TrainingCatalogue/>



Virtual Course

Classroom Course



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



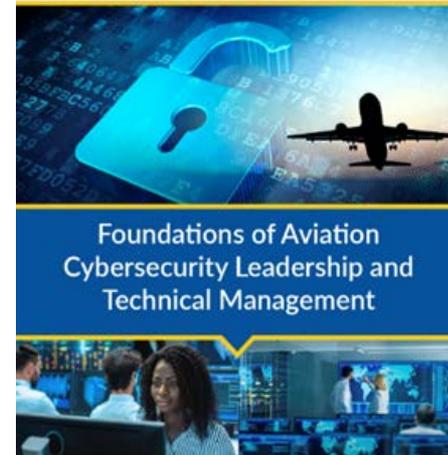
Cybersecurity Training

- ICAO & Embry-Riddle Aeronautical University - Foundations of Aviation Cybersecurity Leadership and Technical Management

<https://igat.icao.int/ated/TrainingCatalogue/>



EMBRY-RIDDLE
Aeronautical University



Foundations of Aviation
Cybersecurity Leadership and
Technical Management

Cybersecurity has become an essential component
of a safe, secure and resilient aviation system

*Classroom and virtual
course*



ICAO Training Achievements 2021

- **34** ICAO-sponsored aviation security training activities via ASTCs
- **21** virtual-class and **13** in-person events
- Benefitting **438** aviation security specialists from **86** Member States
- **4** Train-the-Trainer Sessions for Security Culture Workshop in May. ICAO staff and **40** Certified Instructors were trained
- Biannual Newsletters were issued for ICAO Certified Instructors
- **3** AVSEC PMCs conducted benefitting **50** aviation security specialists
- **For 2022**, as of 31 August 2022, there were a total of **14** global ICAO-sponsored aviation security training activities from ASTCs, benefitting **196** aviation security specialists from **58** Member States

[ASTC Schedule for MID 2022](#)



Impact of the Pandemic

Annual training activities continued despite the pandemic (although significantly reduced in 2020)

Year	Virtual	In-person	ICAO-sponsored activities (Total)	Results
2019		35	35	517 specialists, 100 States
2020	2	11	13	138 specialists, 24 States
2021	21	13	34	438 specialists, 86 States
2022 (31st Aug)	4	10	14	196 specialists, 58 States

(Activity level)

37% of Pre-pandemic level

97% of Pre-pandemic level

Full programme



ICAO Assistance Achievements

- In total, 13 States are currently involved in an active Aviation Security Improvement Plan (ASIP)
- iPack COVID-19 Aviation Security Quality Control Oversight (iPack-AVSEC)
- iPack designed to guide State Authorities responsible for Aviation Security and other relevant stakeholders in their efforts to maintain and strengthen surveillance measures during and after the pandemic
- 19 iPack-AVSEC beneficiary States in 2021, additional 5 States in 2022
- Air Cargo and Mail Security Course (virtual) and Risk Management Workshop (virtual) through partnership with UNODC/WCO Container Control Programme (CCP)
- Cooperation with UNOCT on the Programme on Threat Assessment Models for Aviation Security (TAM Programme)
- For **2022**, as of 31 August 2022, there were a total of **34** ICAO HQ-provided aviation security **assistance** activities, benefitting **544** aviation security specialists from **65** Member States



Support for Key Regional Initiatives

HQ support for the:

- Cooperative Aviation Security Programmes in the Asia and Pacific and Middle East Regions (CASP-AP, CASP-MID)
- Comprehensive Regional Implementation Plan for Aviation Security and Facilitation in Africa (AFI SECFAL Plan)
- Regional Aviation Security and Facilitation Groups



ICAO Security Culture : Background

- 40th ICAO Assembly designated 2020 as the Year of Security Culture (YOSC), making **security awareness** and **security culture** a priority
- ICAO Council approved the relaunch of the YOSC in **2021** due to COVID-19
- Launched virtually during the ICAO Global Aviation Security Symposium 2020 by the ICAO Secretary General
- YOSC supports the **GASeP** priority action of “developing security culture and human capability”



ICAO Security Culture: Objectives





ICAO Security Culture Tools

ICAO Security Culture website

- Articles, guidance, toolkits, videos, FAQs, training links, quizzes
- Shared security culture best practices by the international aviation community
- Self-assessment tool
- ICAO/ACI World 'Video challenge'

The screenshot shows the ICAO Security and Facilitation website. The header includes the ICAO logo and the text 'SECURITY AND FACILITATION'. Below the header is a navigation menu with links for 'About ICAO', 'Global Priorities', 'Events', 'Information Resources', 'Careers', 'Uniting Aviation', 'ICAO TV', and 'Subscribe'. The main content area is titled 'Year of Security Culture 2021' and features a banner image of four people in uniform. Below the banner, there is a 'Background' section with text explaining the resolution and the impact of COVID-19. A 'Recent' section lists '2021 YOSC Activities Calendar'. The page also includes a search bar and a sidebar with links to 'Security Culture', 'YOSC 2021', and 'State's Security Culture self-assessment'.



ICAO Security Culture Toolkit

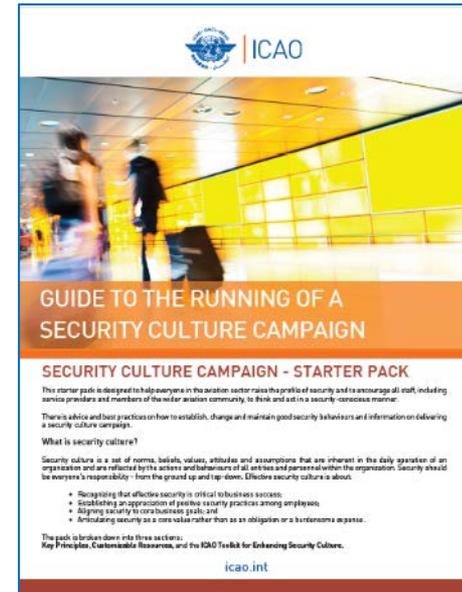
- Available in all ICAO languages
- Describes what you (and your organization) can do to implement a strong and effective security culture
- Highlights the desired security outcomes and best practices to follow





ICAO Security Culture Campaign ‘Starter Pack’

- Available in all ICAO languages
- Describes how you (and your organization) can implement a strong and effective security culture
- Key principles and practical actions highlighted
- Customizable resources shared





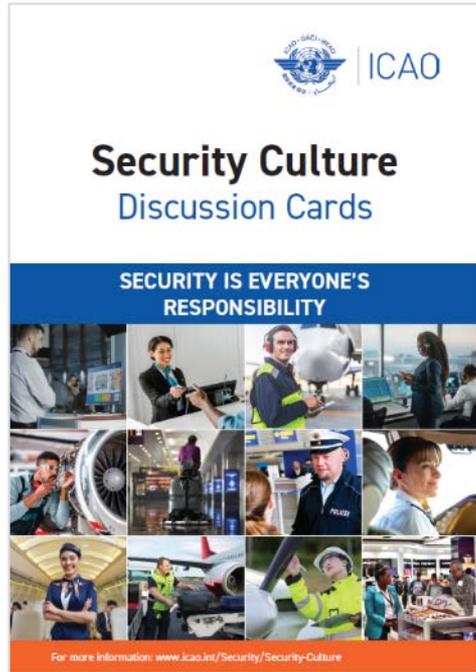
Training

- Importance of training and continuous learning
 - Why is a strong security culture necessary
 - What can staff do to ensure it is implemented
- **ICAO Security Culture Workshop**
- Various training material from States and Industry is also available on the ICAO Security Culture website

<https://www.icao.int/Security/Security-Culture/Pages/default.aspx>



ICAO Security Culture Discussion Cards



Over 60 cards to facilitate Security Culture conversations

 | ICAO

Security Culture Discussion Cards

POSITIVE WORK ENVIRONMENT



For more information: www.icao.int/Security/SecurityCulture

 | ICAO

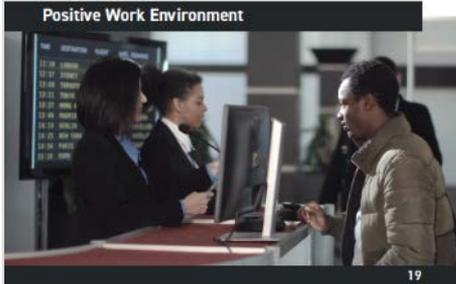
Status quo

Is security taken seriously in your organization?

Security must be at the heart of the business, as a core value and everyone's responsibility.

Do staff know what is expected of them when it comes to security?

Positive Work Environment



19

 | ICAO

Doing the right thing

How is good security practice made easy for you in your organization?

If it is easy to follow security processes, it allows staff to display positive security behaviour and actions more easily.

What are the barriers to good security practice?

Positive Work Environment



23

ICAO Security Culture Customizable Resources

Over 25 ICAO customizable materials to promote Security Culture

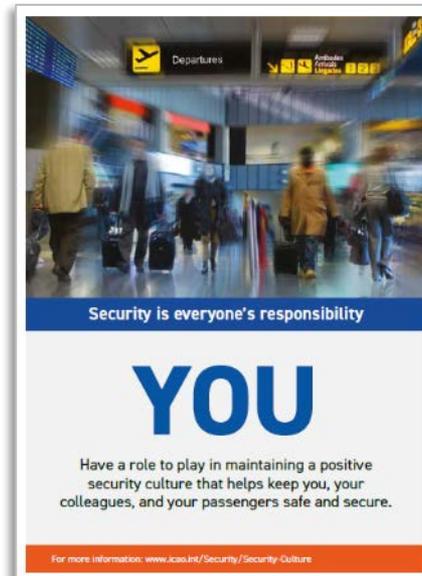


ICAO
SECURITY CULTURE
Security Interview: Getting the culture right every day

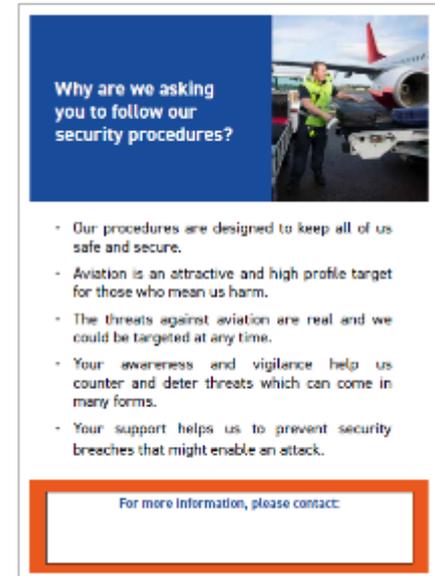
1. How would you describe the security culture in your organization?
2. When compared to other business objectives, do you think security is a priority?
3. What do you understand to be your role in security?
4. How can senior managers demonstrate good security practice?
5. If you observe suspicious behaviour or something which causes concern, how would you report it in your organization?
6. If you observe suspicious behaviour or something which causes concern, what would make it easier for you to report it?

Security is everyone's responsibility

Interview Templates



Double-sided flyer





الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



ICAO Security Culture Customisable Resources

Over 25 ICAO customizable materials to promote Security Culture



PowerPoint Briefing Pack



Wallet Cards

12 ICAO Security Culture Posters For Staff Areas

Security Culture ICAO

Eyes and ears could be monitoring you

Protect Sensitive Information

- Ensure security topics are not publicly discussed
- Be cautious of people asking questions about security and only share information with those who need to know
- Follow procedures for storing, transmitting and disposing of sensitive information.

For more information, visit:
www.icao.int/Security/Security-Culture

Security Culture ICAO

Responding to security incidents

Know your role

Security is everyone's responsibility

Knowing the role you play when responding to security incidents helps keep everyone safe and secure. Always follow security rules.

For more information, visit:
www.icao.int/Security/Security-Culture

Security Culture ICAO

Is something not quite right?

See it. Hear it. Report it.

Reporting unusual or suspicious activity helps keep us all safe and secure. When reporting, remember:

- What is it? • Where did it happen?
- Why is it suspicious? • Who witnessed it?
- When did it occur?

For more information, visit:
www.icao.int/Security/Security-Culture

Security Culture ICAO

Help keep everyone safe & secure

Let us know how security can be improved

- Are security policies and procedures clear?
- Do you have access to the security equipment and resources you need?
- How can your role further support good security?

For more information, visit:
www.icao.int/Security/Security-Culture

Security Culture ICAO

You know what's normal

Trust your instincts

Security is everyone's responsibility

Report unusual or suspicious activity immediately. Help keep everyone safe and secure.

For more information, visit:
www.icao.int/Security/Security-Culture



الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY



Thank You

**ICAO AVSEC Assistance, Capacity Building and Training
Implementation Support and Development Section - Security (ISD-SEC) ICAO HQ Montréal**
Email: isd@icao.int
Tel: +1-514-954-6311