

### Human factors in Cybersecurity

Capacity building, training and cybersecurity culture



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### **Session 7**

**Human Factors in Cybersecurity** 



- ICAO Aviation Cybersecurity Strategy
- UAE National Cybersecurity Strategy
- The UAE Cybersecurity Council (CSC)
- The Role of the UAE Cybersecurity Council (CSC)
- GCAA National Civil Aviation Cybersecurity Strategy
- Human Factors in Cybersecurity GCAA
- The UAE GCAA Cybersecurity Approach
- UAE GCAA Year of Security Culture (YOSC)
- Readiness for the future "Jahiz"
- Largest cyber drill competition "Guinness World Records"
- The UAE GCAA Reporting system

**SYMPOSIUM** 



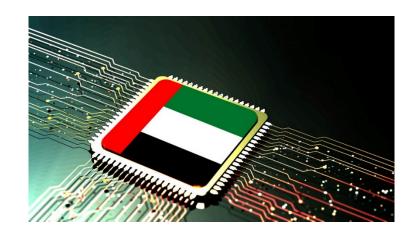
## **ICAO Aviation Cybersecurity Strategy**

- Ensure appropriate role-based qualifications of personnel
- Increase awareness of cybersecurity
- Ensure proper curricula on aviation cybersecurity are included in the national educational framework
- Foster cybersecurity innovation and appropriate research and development
- Include cybersecurity in the ICAO Next Generation of Aviation Professionals' strategy



## **UAE National Cybersecurity Strategy**

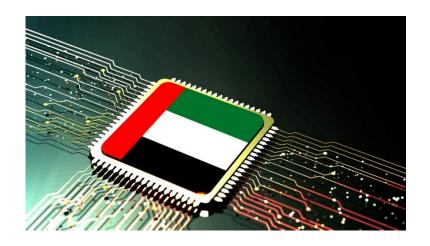
- 1. To protect the critical infrastructure & information assets of the UAE from cyber threats and risks
- 2. It is aligned with the guidance from ICAO with regards to Civil Aviation operations in the UAE
- 3. It provides standards & best practices for enhancing the cyber security of the aviation sector.





## **UAE National Cybersecurity Strategy**

- 4. The strategy aims to achieve four main objectives:
  - Establish a **robust** governance framework;
  - To develop the **capabilities** and skills.
  - To **foster** a culture of cyber **awareness** and responsibility; and
  - To enhance the **cooperation** and coordination.



**SYMPOSIUM** 

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- Establishment of the UAE Cybersecurity Council
- World Government Submit 2022 Dubai
- A Memorandum of Understanding with ICAO





#### The Role of the UAE Cybersecurity Council (CSC)

- Provide advice & expertise on cybersecurity;
- Work with all relevant entities to ensure the UAE cyberspace is safe and secure;
- Analyze, assess and detect cyber threats and risks;
- Manage national cyber incidents;
- Provide cybersecurity expertise
- Support cybersecurity industry in the development of cyber security skills;
  and
- Providing advice on physical & personnel security



## GCAA National Civil Aviation Cybersecurity Strategy

- **Development** and **enforcement** of safety and security regulations.
- Continuous improvements of the safety and service standards.
- Continuous improvements in the bi-lateral relations.
- Provision of GCAA services in accordance with established standards.
- Instill innovation culture.



#### **Human Factors in Cybersecurity - GCAA**

- **Training** & **development** of personnel in cybersecurity.
- Enhance awareness of cybersecurity, including education, recruitment and training.
- Support skills development amongst GCAA employees.
- Encourage cybersecurity innovation & research.
- Develop & maintain cybersecurity culture.





PROTECTING AVIATION FROM CYBER ATTACKS

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## The UAE GCAA Cybersecurity Approach

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## **International Approach**

ICAO Cybersecurity Panel

• ICAO Cybersecurity Working Group on Threat & Risk

• ICAO Cybersecurity Working Group on Guidance **Material** 





### **National Approach**

#### Introduction of the concept of Just Culture in the UAE

- 1. Encourage **personnel** to report cybersecurity **incidents**.
- 2. Highlight the responsibilities of personnel towards their organizations.
- 3. Educate personnel about cybersecurity procedures, awareness, training, & education.
- 4. Encourage staff to practice cyber sterility.





### **UAE GCAA Year of Security Culture (YOSC)**

- YOSC Webinars and Workshops (more than **1500** participants)
- **Dedicated** Security Culture website
- & Collaboration international with local experts, including experts from ICAO.
- No financial implications.
- Planned future cybersecurity events- 2024.



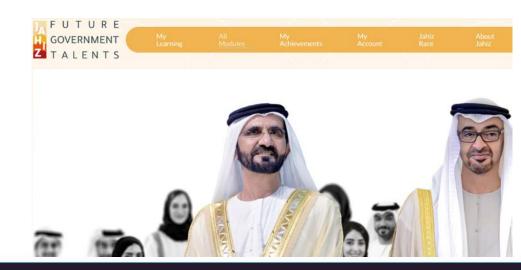
Cyber Security (AR, EN, Urdu, Malyalam)



## Readiness for the future "Jahiz"

#### **Cyber Security awareness:**

- National Cyber Security
- Data Protection
- Digital Privacy
- Email Security
- Smartphones management & Security
- Social Media





#### Largest cyber drill competition "Guinness World Records"

- The largest cyber drill competition "UAE Dubai" 19 January 2023.
- Cyber Security Council broke the record with 150 participants.
- Cyber Security Council received the Guinness World Record.



## The UAE GCAA Reporting system

- Reporting of Cybersecurity incidents.
- Reporting of Security Breaches (ROSB)
  System.





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# THANK YOU

