

CYBERSECURITY AND RESILIENCE SYMPOSIUM

PROTECTING AVIATION
FROM CYBER ATTACKS

DOHA, QATAR | 6 - 8 NOVEMBER 2023



ICAO MID



Strengthening The Weakest Link in Cybersecurity Chain: The Use of an Awareness Platform

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What is Security Awareness Training?

- ✈ A security awareness program helps limit risks of cyber breaches to an organization's sensitive and confidential data. A security awareness program is defined as a formal program with the goal of training users of potential threats to an organization's information and how to avoid situations that might put the organization's data at risk.



Why Does it Matter ?

- ✈ 96% of all social engineering attacks occur via email phishing
- ✈ The world is getting more digital
- ✈ Aviation, banking, healthcare, etc. is all online
- ✈ Crime is following the same trend
- ✈ Worldwide ransomware attacks
- ✈ High-profile hacks in the news
- ✈ Phishing emails are more sophisticated each day

(Verizon DBIR 2020)



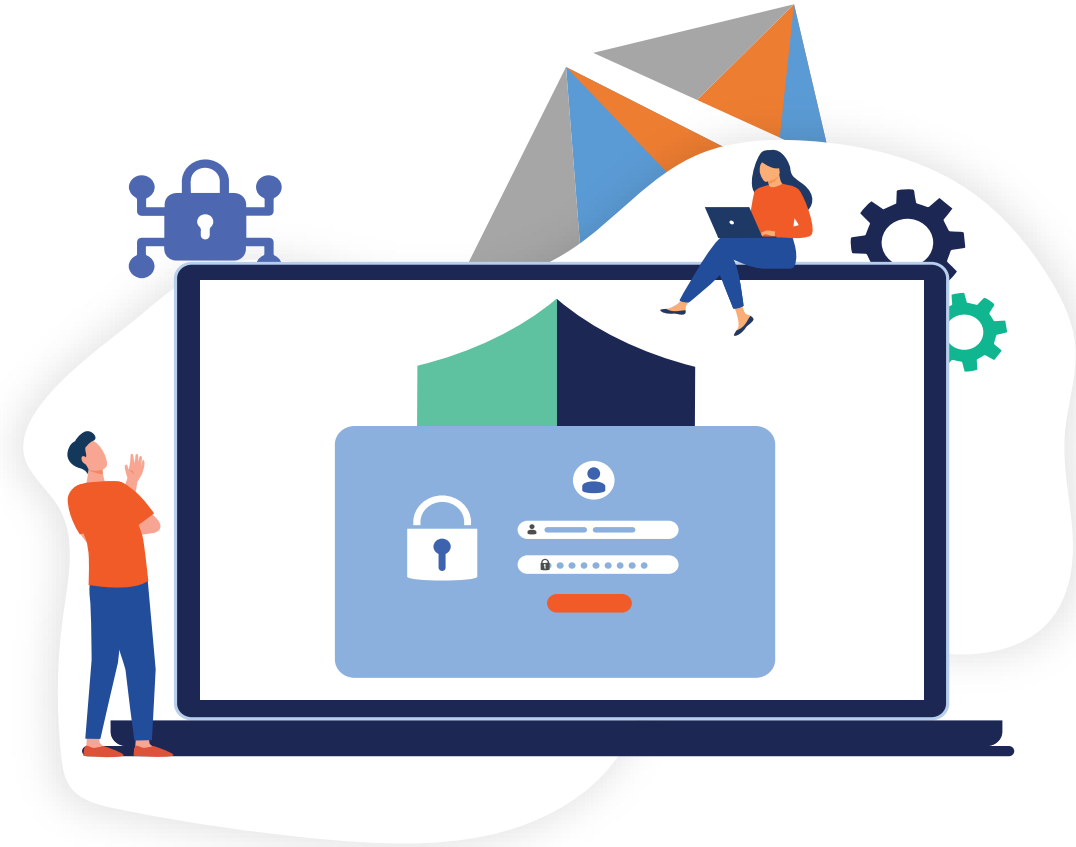
The Weakest Link

✈ Yes, technology can protect your infrastructure to a great extent. But there is no doubt that the human factor is the weakest link in the chain of data security



What Does CAA Oman Want To Do?

- ✈ CAA Oman is studying the possibility of building the first Aviation Cybersecurity Awareness Platform that will help inspire its people to protect the organization against the ever increasing threats of cybercrime. It's a three-step formula of risk calculation, practical tools and behavioral change that will minimize the chances of your valuable data falling into the wrong hands.



What Will It Include?



Educational Content,
Gamified Learning,
Quizzes, Etc.



Phishing Simulations And
Testing (Emails,
Smishing, & USB
Campaigns)



Reporting and analytics
(Dashboard)

Training Modules And Educational Content



Educational content should cover a wide range of topics and threats your users might face



Ability to add custom content (policies and procedures, presentations, documents, surveys, etc.)



Short modules as they are more engaging and effective



Certified Training

Phishing Simulations And Testing



Simulations are often based on real-life phishing examples but contain nothing harmful within



Customizable email templates or create your own from scratch



Ability to report phishing simulations (engage and become part of the security culture)



Reporting And Analytics



Ability to generate detailed reports on user behaviour



By type: Phishing, Training, Risk



User, Group (Department), etc.,



Why Is Security Awareness Training Important?

- ✈ Reduce The Risk Of A Breach
- ✈ Support And Educate Your Employees
- ✈ Support Your Existing Technologies
- ✈ Foster A Positive Security Culture
- ✈ Identify Areas For Improvement



Why Is Security Awareness Training Important?

✈ Security awareness training is also essential to ensure compliance with many industry standards and external regulations:

- ◆ USAP-CMA
- ◆ GDPR (Europe)
- ◆ NIS Directive (UK)
- ◆ FCA (UK)
- ◆ Cyber Essentials (UK)
- ◆ NIST 800-53
- ◆ ISO27001, 27002 (International)
- ◆ PCI DSS



Benefits

- ✈ Your Employees are Becoming More Aware
- ✈ Fulfil Compliance
- ✈ Boost In-Country Value (ICV)
- ✈ Achieve the strategic directions and goals of Oman Vision 2040



Recommendations And The Way Forward

- ✈ Invest in Design and Engaging Program (Gamification)
- ✈ Focus On Teaching, Not Tricking
- ✈ It's All About Frequency
- ✈ Invite Users Into The Selection Process
- ✈ Develop the Platform and Learning Materials
- ✈ Get ICAO Accreditation
- ✈ Make the Use of The Platform a Mandate for Stakeholders

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THANK YOU

