

Portfolio: Ata Khan - Master's in Information Technology

1. About Me

Hi, Im Ata Khan, a Masters in Information Technology student at the University of the Sunshine Coast. With a background in engineering and over 15 years of experience in operations, logistics, and business development, Im now focused on applying IT skills especially in cybersecurity and project management to make systems safer and smarter.

2. Project Title

ISO 27001 Gap Analysis and Cybersecurity Awareness Enhancement at Actualisation

3. Project Summary

As part of my internship at Actualisation, I conducted a detailed review of the organizations information security posture. This included performing a gap analysis between the companys current policies and the requirements of ISO/IEC 27001:2022, followed by awareness training simulations for phishing and human-related vulnerabilities.

4. Objectives

- To evaluate the companys current security controls against ISO 27001.
- To identify missing or inadequate controls using structured analysis.
- To improve employee cybersecurity awareness through simulated phishing attacks and training.

5. Tools and Technologies Used

- Microsoft Excel for audit and gap-tracking.
- Google Workspace internal communication and training delivery.
- Custom Phishing Simulation Tool for awareness training.

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- ISO 27001 Guidelines for benchmarking.

6. Implementation Approach

1. Reviewed ISO 27001 clauses and Annex A controls.
2. Mapped current policies and procedures against ISO controls.
3. Identified gaps and documented improvement suggestions.
4. Conducted phishing simulations and gathered engagement metrics.
5. Delivered basic awareness training via email and sessions.

7. Results & Outcomes

- Identified 17 major and 9 minor gaps in ISO 27001 compliance.
- Suggested process and documentation improvements in risk assessment and access control.
- Achieved 60% employee engagement in phishing simulations.
- Led to scheduled follow-up training sessions.

8. Challenges & Solutions

Challenge: Limited access to internal policies

Solution: Coordinated with HR and IT for access

Challenge: Low participation in phishing trials

Solution: Used gamification and incentives

Challenge: Policy documentation was outdated

Solution: Proposed a review schedule and templates

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9. Reflection & Learnings

This project taught me the practical application of ISO 27001, sharpened my auditing and analysis skills, and helped me realize the importance of human behavior in security frameworks. It also reinforced how effective communication and soft skills are essential for delivering technical changes.

10. Appendix

- Screenshot: Phishing simulation results
- Sample Gap Analysis Excel
- Summary Table of ISO 27001 Clauses (Available upon request)
- Link to sample awareness training presentation (internal use only)