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Cybersecurity Compliance & Awareness at Iarnród Éireann

Ensuring Safe, Resilient, and Compliant Operations

Agenda

1. Key Cybersecurity Legislation
2. Implication for Iarnród Éireann
3. Tools to Assist Compliance
4. Need for a Security Awareness Programme
5. Implementing an Effective Awareness Programme

Key Cybersecurity Legislation

NIS2 Directive

Addresses secure networks, swift incident reporting, and top-level accountability.

GDPR

Governs personal data protection; 72-hour breach reporting rule.

Data Protection Bill

Enforces GDPR in Ireland; includes DPC enforcement and criminal penalties.

Implications & Requirements for Iarnród Éireann

- **Risk Management & Governance**
  Board-level oversight; data protection by design
- **Accountability & Penalties**
  Substantial fines; potential criminal charges (DPA 2018).
- **Incident Reporting**
  24-hour (NIS2) vs. 72-hour (GDPR) timelines.
- **Safeguarding Passenger Data**
  Compliance + public trust.

Tools & Technologies
to Assist Compliance

- SIEM & SOAR: Centralized monitoring, automated response.
- Vulnerability Management: Regular scans (Nessus, Qualys) & patching.
- GRC Platforms: Map legal requirements, track risks & audits (e.g., RSA Archer).
- IAM & PAM: Secure access control, multifactor authentication.
- Encryption & DLP: Safeguard personal data (GDPR/DPA).

The Need for a Security Awareness Programme

Human Factor:
Employees are our first (and last) line of defense.

Legal Mandate:
NIS2, GDPR, and DPA 2018 expect staff training.

Protecting Data:
Reduces phishing success, accidental disclosures.

Building a Culture:
Everyone owns cybersecurity, not just IT.

Implementing an Effective Awareness Programme

Tailored Training

Basics for all, plus role-specific and executive modules.

Delivery Methods

E-learning, phishing simulations, quick in-person briefings.

Measuring Success

Track completion, test with simulated attacks, gather feedback.

Continuous Improvement

Refresh content, leadership support, empower ‘security champions.’

Dash of Creativity: A Small Demo

https://railsecure.streamlit.app

Thank You for Your Attention

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