

Security Awareness Program Example:

Patterns, Strengths, and Pitfalls



- Framing question: what does a real program look like day to day?



- Three lenses: recurring patterns, provable strengths, common pitfalls



- Audience contract: decision-ready takeaways for security, IT, risk, L&D, compliance, reviewers



- Roadmap: anatomy, governance, patterns, strength cases, failure modes, measurement, adaptation



- Scope boundary: awareness vs. role-based training vs. education vs. culture — conflating them weakens programs

What Counts as a Security Awareness Program



- A governed, risk-based, continuous learning capability that changes workforce behavior



- Four layers: broad awareness, role-based training, professional education, event-driven reinforcement



- NIST SP 800-50 Rev. 1 (2024): five-phase Cybersecurity and Privacy Learning Program lifecycle



- ISO 27001:2022 separates competence (7.2) from awareness (7.3, Annex A 6.3)



- NIST CSF 2.0 PR.AT-01 covers general training; PR.AT-02 covers role-specific training



- Correct up front: completion $\neq$ capability; 100% pass $\neq$ safety; phishing simulation alone $\neq$ a program



Anatomy of a Representative Program

GOVERNANCE CLOCK: CHARTER AUTHORITY VS. LIVING CALENDAR



- **Core components:**
governance, risk assessment,
content design, delivery,
measurement, improvement



- **Cadence:**
annual baseline,
quarterly campaigns,
monthly micro-learnings,
just-in-time nudges



- **Named roles:**
program owner,
security champions,
HR/L&D, GRC,
executive sponsor



- **Artifacts:**
charter, RACI matrix,
training matrix, annual
calendar, metrics dashboard



- **NIST SP 800-50 models:**
centralized, centralized policy
with distributed delivery,
fully distributed



NIST SP 800-50 MODELS



CENTRALIZED

One central entity designs,
controls, and delivers
the program.



CENTRALIZED POLICY WITH DISTRIBUTED DELIVERY

Central authority sets policy
and standards; distributed
teams deliver locally.



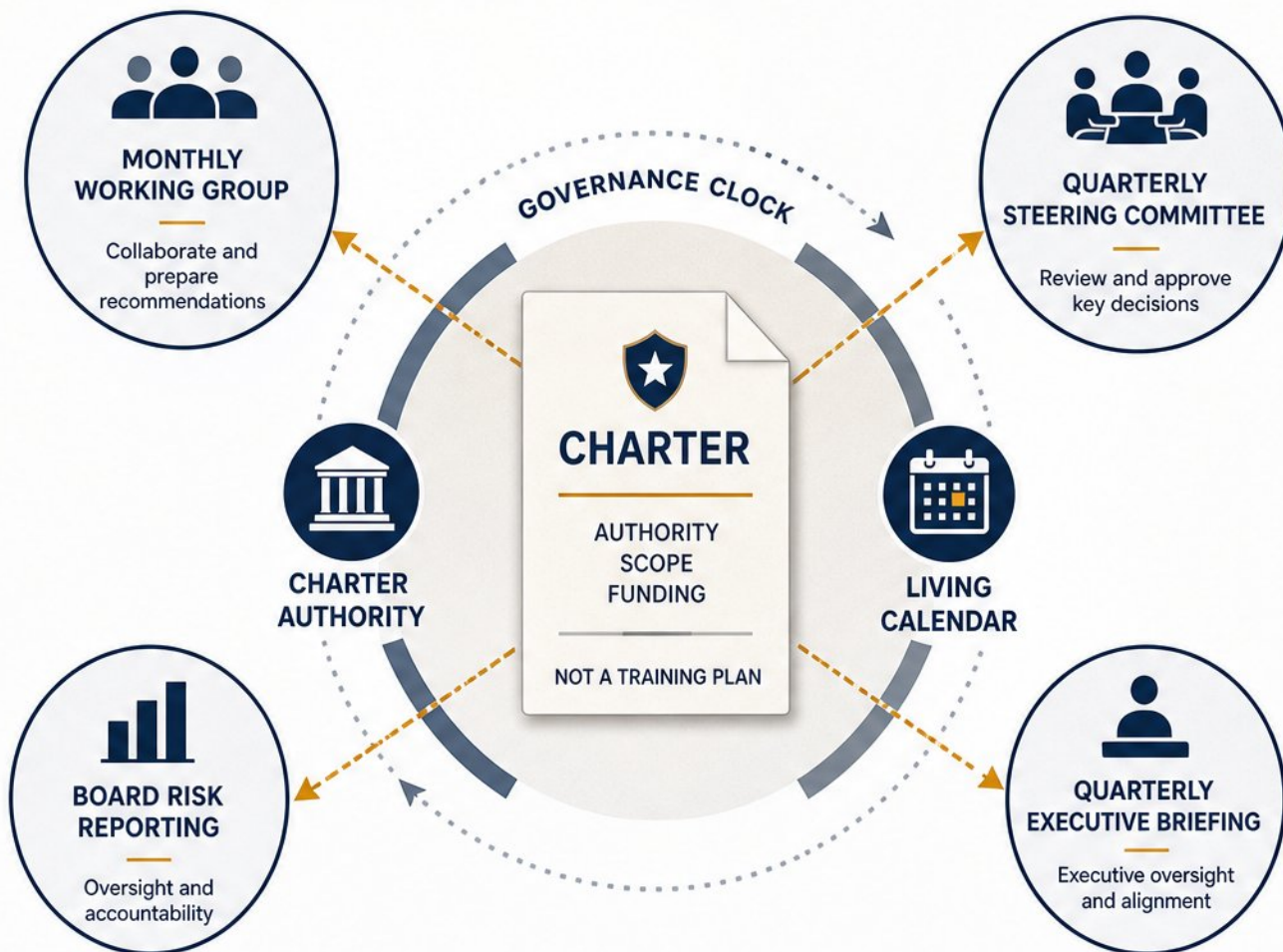
FULLY DISTRIBUTED

Multiple entities collaborate
to design, manage, and
deliver the program.

Governance, Charter, and Decision Rights



- ▶ Charter governs authority, scope, funding — not a training plan
- ▶ Name decision rights: scenario approval, data use, budget, exceptions, termination
- ▶ Monthly working group; quarterly steering committee; quarterly executive briefing
- ▶ Stable charter, living calendar: absorb incident-driven changes without renegotiating scope
- ▶ Write down amendment authority — or scope creep erodes the program



STABLE CHARTER

Defines enduring authority, scope, and funding.



LIVING CALENDAR

Adapts to incidents and emerging needs without renegotiating scope.

Patterns That Recur Across Effective Programs



- Risk-based targeting by exposure and leverage, not org chart



- Role-relevant rehearsal: finance on BEC, developers on secrets



- Positive reinforcement over shame; reporting kept to one click



- Just-in-time prompts at the moment of risk



- Transparent, trended metrics segmented by department



- Continuous iteration; retire content that stops engaging

Patterns by Maturity Stage



- ▶ SANS five stages: Non-Existent, Compliance Focused, Behavior Change, Culture Change, Optimization
- ▶ Stage 2 compliance programs assemble in about one month
- ▶ Stage 3 sees measurable behavior change within 6–12 months
- ▶ Stage 4 organization-wide culture change commonly takes 3–10 years
- ▶ Metrics evolve from completion rates to detection and recovery times
- ▶ Scale requires dedicated staff, program age, and cross-department partnerships

Strengths: What the Example Program Does Well



- Visible executive sponsorship: leaders train, receive briefings, and report human-risk trends



- Measurable risk reduction: phishing susceptibility, credential submission, report volume, time to report



- Blended delivery: mandatory baseline, role-based modules, simulations, just-in-time learning



- Inclusive design for global, multilingual, hybrid, and shift-based workforces; localization and accessibility are requirements



- Feedback loop: simulation results, employee reports, and real incidents drive documented content changes



- Audit-ready by design: versioned curriculum mapped to controls, per-employee records, review minutes



Case Evidence: What Measurable Strength Looks Like



Vendée Habitat
(~300 staff)



- Vendée Habitat (~300 staff): vulnerability 20%→2% in three years; 200+ reports/month; CEO fraud stopped



lastminute.com
(1,700 staff)



- lastminute.com (1,700 staff): vulnerability index halved in 12 months via Slack coaching, 24 micro-sessions/year



CoreDux
(~300 users)



- CoreDux (~300 users): phish-prone ~12%→5% average (low 2%); ~900 reports in six months



YAMAM Group
(~80 staff)



- YAMAM Group (~80 staff): click-through 24.64%→1.41% — 94% cut in eight months



- Credible claims share: honest baseline, steady difficulty, rising reports alongside falling clicks



Pitfalls: Where Awareness Programs Commonly Fail

REPORT-TO-CLICK
RATIO



AWARENESS THAT
INFORMS ACTION—
NOT JUST CLICKS.



- Compliance theater: 100% completion, high click rate — proof of nothing



- Annual-only training; knowledge decays and most of the year is uncovered



- Blame-oriented simulations: leaderboards and discipline kill reporting



- Generic modules for developers, finance, and frontline staff satisfy nobody



- Weak measurement, easy templates; 90%+ pass rates signal inflated results



- Under-resourcing, ignored local culture, and distress-based lures erode trust

The Evidence on Training Effectiveness



UC San Diego Health Study

≈19,500 employees

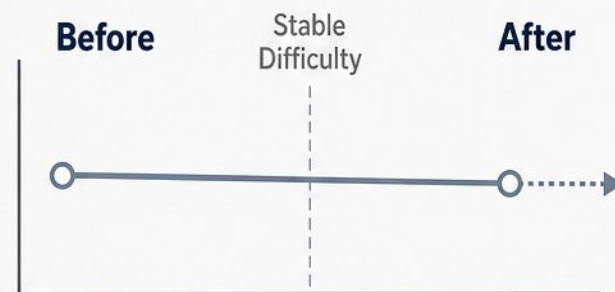
- ▶ - UCSD Health (≈19,500 employees): annual training showed no significant phishing-failure link



Fintech Reproduction

(N=12,511)

- ▶ - Embedded training cut click likelihood by only ~2 points; 75% engaged under a minute
- ▶ - Fintech reproduction (N=12,511): neither lecture nor interactive training improved clicks or reporting



NIST Phish Scale

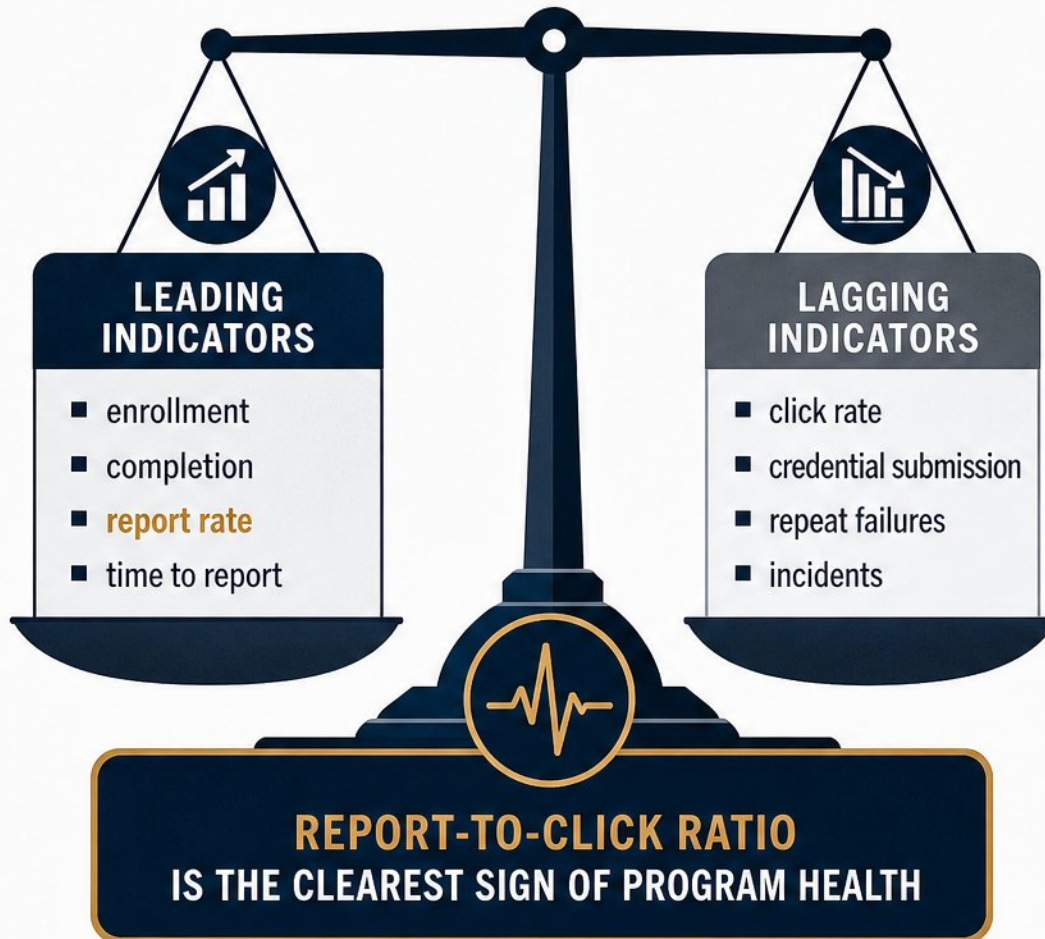
- ▶ - NIST Phish Scale: click rates doubled, ~7% easy to ~15% hard lures



- ▶ - So training is a weak control — pair it with reporting channels, JIT coaching, technical controls



Measuring Strength Without Gaming Metrics



- Leading indicators: enrollment, completion, report rate, time to report



- Lagging indicators: click rate, credential submission, repeat failures, incidents



- Report-to-click ratio is the clearest sign of program health

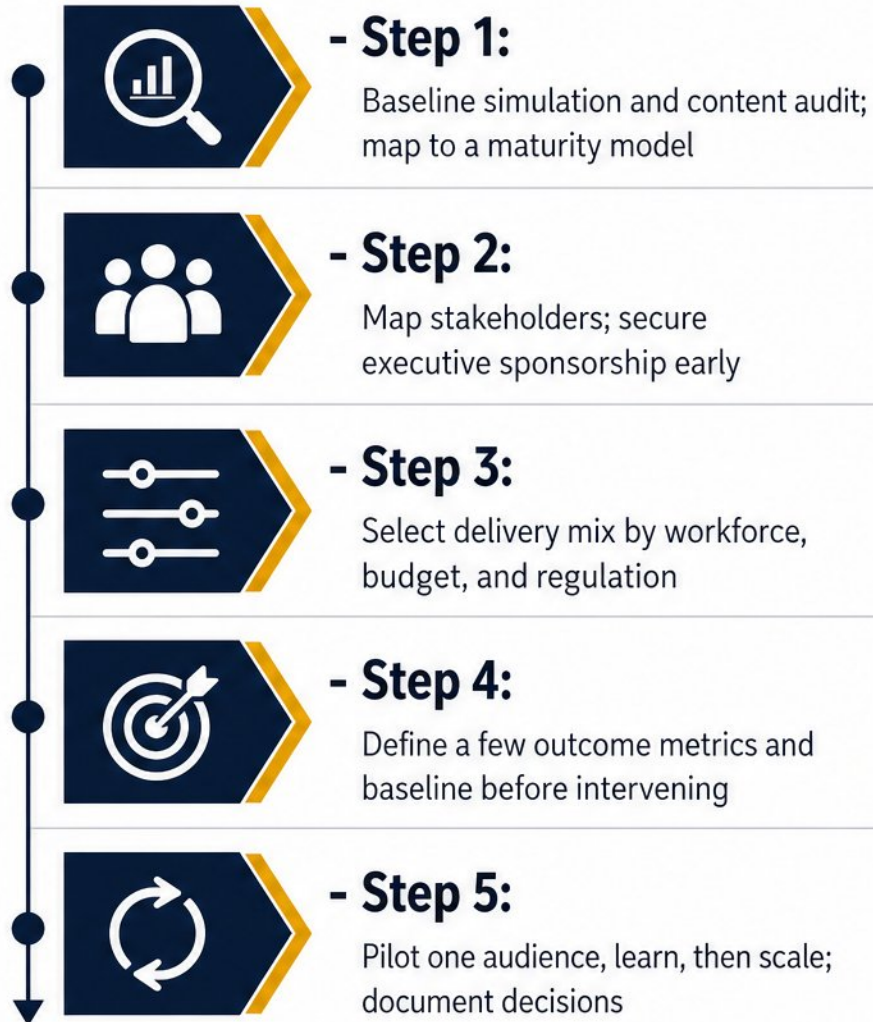


- Trend click, leak, and report together—falling clicks only count if difficulty holds



- Avoid vanity metrics and traps that reward hiding incidents or easy lures

Adapting the Example to Your Own Context



Reviewer's Playbook: Evidence, Questions, and Red Flags



Evidence to Request



- Request the charter, risk assessment, versioned content, and per-person records



Questions for Program Owners



- Ask owners: how is content refreshed, how is success defined, what triggers remediation



Red Flags vs. Green Flags



- Red flags: perfect completion, no sponsor, punitive simulations, stale templates



- Green flags: risk-based targeting, calibrated difficulty, trended metrics, triaged reports



- Separate design gaps from evidence gaps; name the owner and date



90-Day Action Plan and Key Takeaways



DAYS 1-30



- Days 1–30: working reporting channel, blind baseline simulation, named owners across security, HR, IT, GRC



DAYS 31-60



- Days 31–60: publish behavior baseline, segment by exposure and leverage, start monthly micro-learning



DAYS 61-90



- Days 61–90: just-in-time coaching post-click, click/leak/report dashboard, first management review

PROGRAM VITAL SIGN

**REPORT-
TO-CLICK
RATIO**



- Patterns beat one-off tactics; behavior change against stable difficulty proves strength



- Commit: instrument one high-impact behavior and change something visible in 90 days

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