



## Cybersecurity Awareness Training

### Why is cybersecurity awareness training important?

Cybersecurity awareness training for bank employees is critically important because banks are prime targets for cyberattacks due to the sensitive financial data they handle. Proper training programs are the foundation for a ***sound culture of cyber awareness throughout the institution*** and can help counter inherent weaknesses in human interaction with computers and data. Human error has been cited as a contributing factor in 95% of all cyber incidents that occurred in 2024.<sup>1</sup> Training helps to strengthen the overall quality of our defenses against cyber threats.

### Cybersecurity awareness training basics

Effective cybersecurity awareness training programs should be available for all employees and possess the following characteristics:

- ***Appropriate frequency;***
- ***Simulated exercises;***
- ***A dynamic curriculum to address both existing and emerging threats; and***
- ***Out-of-cycle training.***

#### Appropriate frequency: how often should training be offered?

Annual cybersecurity training has long been viewed as a minimum frequency standard in financial institutions. However, while annual training programs may be suitable for some institutions, there is growing evidence that more frequent cyber awareness training can be more effective. In fact, organizations such as ISACA recommend training every four to six months to ensure that individuals more effectively retain the ability to apply what they have learned.<sup>2</sup> Institutions are encouraged to holistically examine the scope and track record of their cybersecurity training programs to determine the most appropriate frequency for delivery of employee awareness training.

#### Simulated Exercises

A continuous program of ***phishing exercises*** can provide multiple benefits to the institution and its employees. While not a substitute for regular, full-scope cybersecurity training, periodically exposing all employees to random, simulated phishing emails more closely mimics what they see in real-world interactions and helps to both train and measure their ability to spot phony email messages, malicious attachments, and harmful links. This is particularly important given the growing sophistication and effectiveness of phishing techniques, such as AI-enhanced phishing, used by modern threat actors. Phishing exercises also provide trackable real-time metrics of employee awareness to institution management, such as *open rate, click rate, and report rate*, which can guide future training efforts and help to identify areas where immediate refresher emphasis might be needed.<sup>3</sup>

#### Employee training curriculum

There are three areas to consider for an employee awareness training curriculum:

<sup>1</sup> Mimecast. [The State of Human Risk 2025](#), p.5.

<sup>2</sup> Chew, Tan Soon (ISACA). [“Considerations for Developing Cybersecurity Awareness Training”](#), March 1, 2023.

<sup>3</sup> Lewis, Jon (Cira). [“How to Measure a Phishing Test Program”](#), January 6, 2024.



- **Existing and emerging threats to the institution.** Employees should be aware of the general threat landscape and the general nature of threat actor tactics, indicators and red flags, etc. Specific training topics should ideally address existing threats, as well as emerging threats to the institution. For example, many training programs today address existing threats such as ransomware, phishing, insider threats, and social engineering. However, with the recent emergence of artificial intelligence and the use of deep fakes by cyber threat actors, it is now most practical to also consider these and other emerging areas when planning the training curriculum.
- **Incident identification and reporting mechanisms.** If an employee observes suspicious activity or inadvertently engages with a malicious email, file, or link, they should be aware of the appropriate procedures for reporting such encounters to management or IT security teams. Moreover, they should feel no hesitation or fear of reprisal in reporting such encounters, regardless of whether they are suspected or actual incidents. Incidents do happen, and management should feel confident, through its training program, that employees will be willing and capable of following established reporting protocols when they do occur.
- **Acceptable use policy training and employee acknowledgement.** According to the FFIEC, “Training should support security awareness and strengthen compliance with security and acceptable use policies.”<sup>4</sup> In most institutions, the acceptable use policy provides specific guidance regarding expectations for employee interactions with company systems. This policy generally addresses considerations such as web browsing, email usage standards, and social media guidelines. Formal training should include curricula addressing the expectations specific to the institution’s acceptable use policy. Moreover, to reduce confusion and foster employee compliance, a written attestation should ideally be obtained annually for every employee interacting with company systems (including senior and executive management) acknowledging that the policy has been read, and its requirements are understood.<sup>5</sup>

The institution should also implement a dynamic program to **track employee compliance with training requirements**. Management should frequently compare completed training assignment records and required due dates, and a process for follow-up, including escalation procedures for noncompliance, should be in place to ensure the completeness of training efforts. Finally, because senior leadership within the institution is frequently targeted by cyber threat actors, training program requirements and tracking should extend to all individuals who are granted access to company data or systems, regardless of their position in the institution’s hierarchy. This would also include any board members with institution email addresses or access to institution networks or systems.

### Out-of-Cycle Training

Due to the dynamic nature of the cyber threat environment, it is often necessary to **provide employees with timely, meaningful information concerning emerging risks in between established training cycles**. Institutions should consider the development of a mechanism to inform employees of relevant threats on an ongoing basis. This can be accomplished through the delivery of threat information via awareness emails from IT security personnel or during branch or department meetings.<sup>6</sup>

<sup>4</sup> Federal Financial Institutions Examination Council. [FFIEC Information Technology Examination Handbook: Information Security – II.C.7.\(e\) – Training](#). September 2016.

<sup>5</sup> CSBS. [CSBS Ransomware Self-Assessment Tool for Banks, Version 2.0](#). October 24, 2023.

<sup>6</sup> Ibid.



## A strong cyber awareness culture is critical to long-term success

A strong employee awareness training program is a key component necessary to establish an ***ongoing culture of cyber awareness in the institution***. The constantly evolving and extremely dangerous nature of today's threat landscape requires a dynamic approach to maintaining employee awareness of these threats. Institutions must empower employees to react to this changing landscape through recognition and reporting of these threats when they arise. Institutions that transform their training programs from one-off, perfunctory exercises into meaningful, dynamic programs will enjoy greater success in repelling existing and emerging threats and increasing protections for customer data and institution systems.