

Personnel Security



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People

Weakest link?

Awareness

Types of Attacks

Social Engineering

Ethics





Training and Awareness

We cannot expect a person to know something if they have never been told

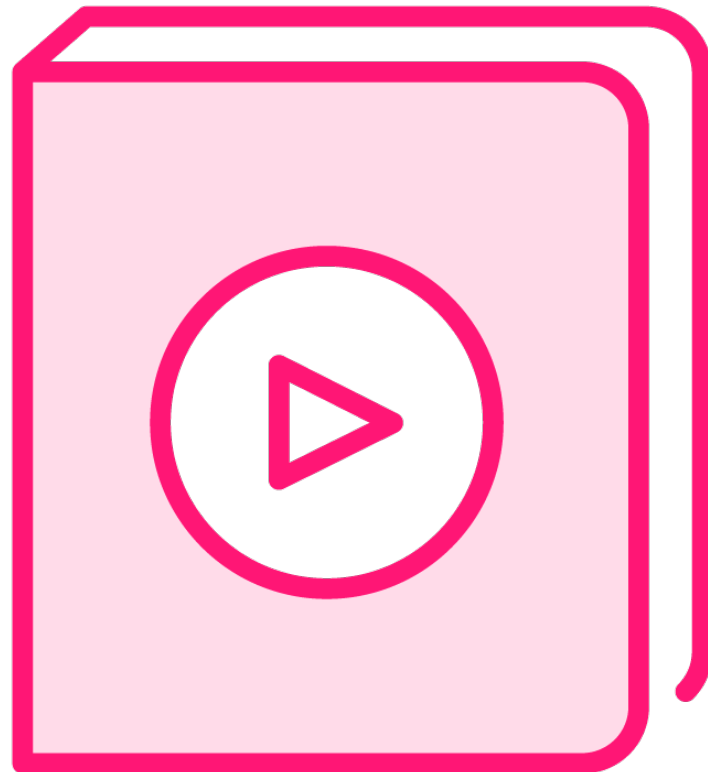


NIST SP800-50

Even a small amount of IT security awareness and training can go a long way toward improving the IT security posture of, and vigilance within, an organization.



Awareness



Focused on users

- Rules of behavior
- Policies
- Procedures
- Non-compliance

Management support – lead by example



Awareness Programs



Create accountability

First step in the learning continuum

- Awareness
- Training
- Education



NIST SP 800-50

Awareness is not training. The purpose of an awareness presentation is simply to focus attention on security. Awareness presentations are intended to allow individuals to recognize IT security concerns and respond accordingly.

“What behavior do we want to reinforce.”

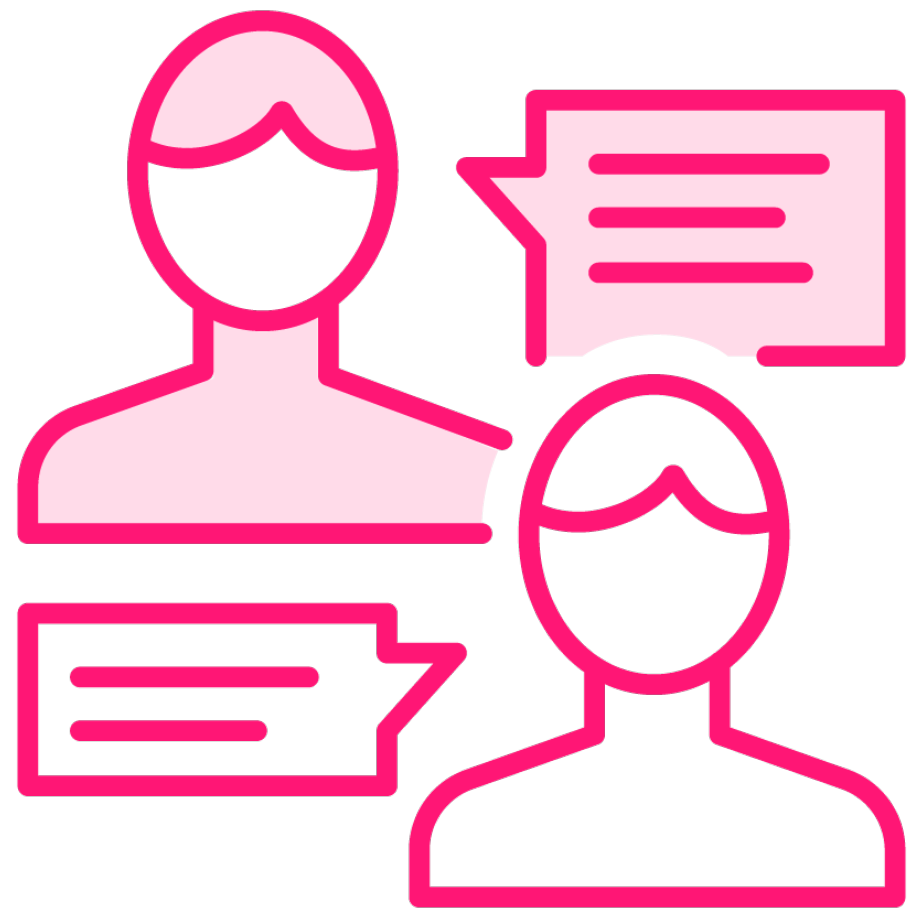




Awareness Requirements



Needs Assessment



Surveys

Interviews

- **Management**

Awareness course completion metrics

Analysis of events

- **Ransomware**
- **Malware infections**
- **Phishing**



Social Engineering

Manipulation of a person to do something they should not have done



Intimidation



Name dropping



**Technical
e.g., Phishing**



**Appealing for
help**



Mitigating Social Engineering



Few technical controls available

The best control is awareness:

- Have a clear message**
- Have an effective delivery method**



Awareness of Social Engineering

How to recognize
social engineering

What to do if
exposed to an attack

What should a
person do if they are
a victim of
an attack



Security Champions



Local staff to provide support for the development, implementation, and monitoring of the program



Key Points Review



Awareness is one of the most effective security controls available

Awareness programs should be based on the identification of needs





Awareness Program Deployment



Delivery of Awareness Programs



Posters

Screensavers

Email

Computer-based

“brown bag”

Awards

- Games (gamification)

Instructor-led sessions





Evaluation of Program

Surveys

- Evaluation forms
- Interviews
- Focus groups

Observation

Status reports

- Attendance



Indicators of Program Success

Sufficient funding

**Management do not
circumvent controls**

Level of attendance



Content Reviews



Update of materials:

- New technologies
- New procedures
- New laws or regulations
- Change in culture
 - Ethics



While improved security behavior can result in a decline in incidents or violations, reporting of potential incidents may increase because of enhanced vigilance among users.





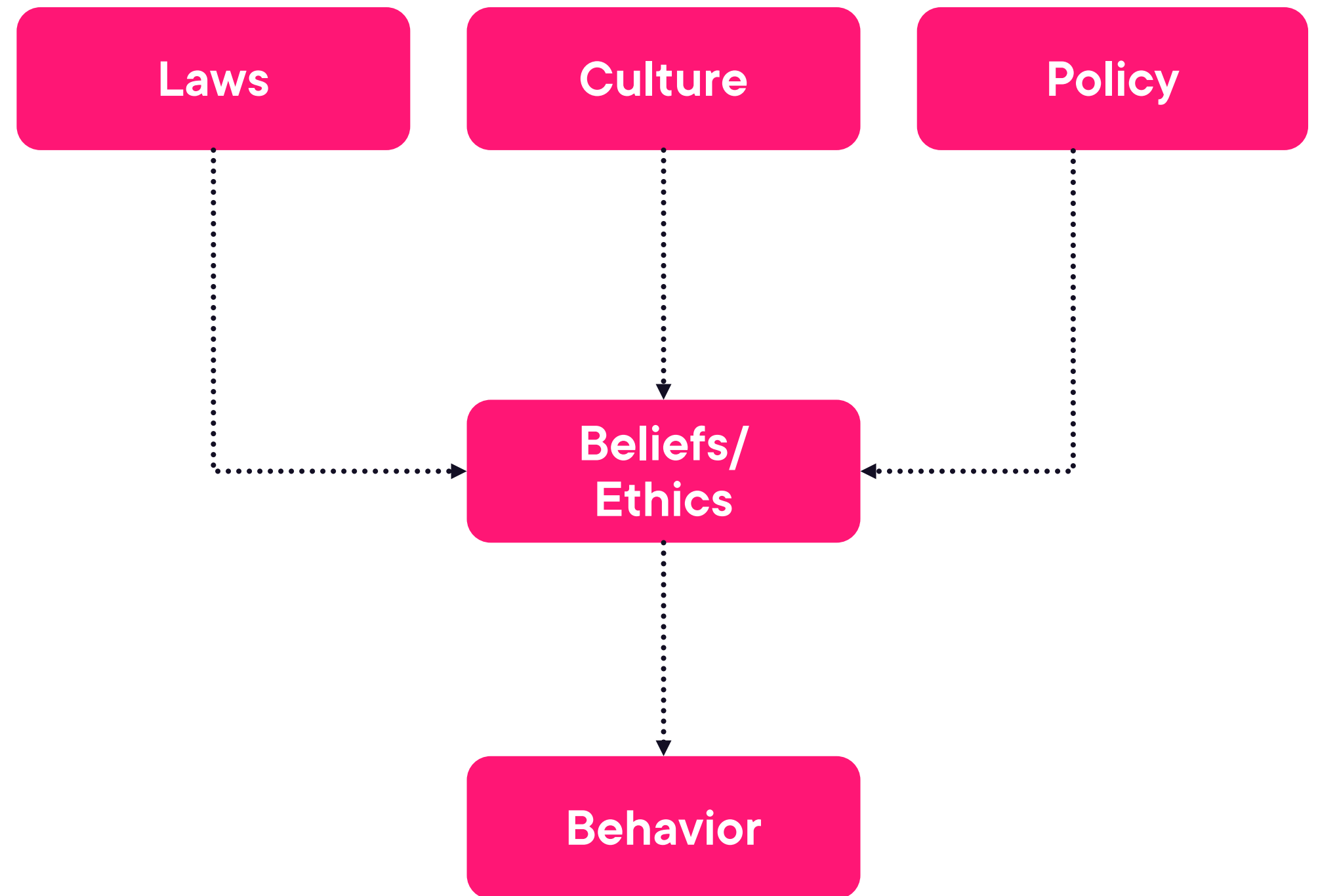
Ethics



Ethics

Moral principles that govern a person's behavior or the conducting of an activity.

Oxford Languages





The core principle of ethics is:
“Do No Harm”



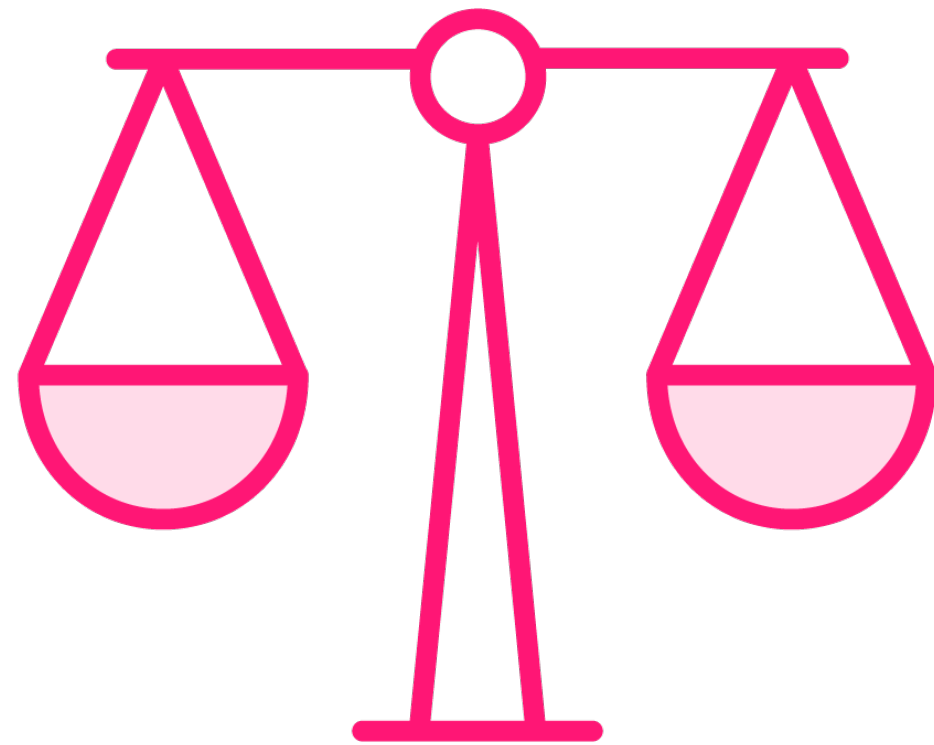


Ethics and Law

Ethics are not the same as law, although they may be based on law.



Professional Ethics



Membership in an organization

Standards of behavior and competence

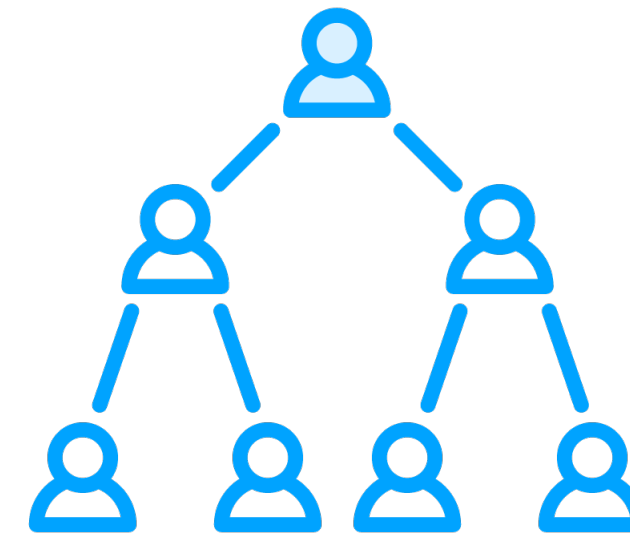
– Continuous learning



Personal Versus Organizational Ethics



A person's ethics may not be the same as the ethics of the organization



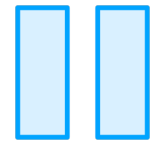
The development and communication of organizational ethics is required



Ethical Violations



Investigation



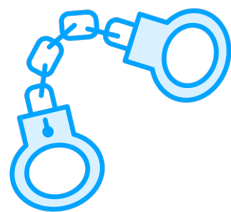
Suspension or termination of membership



Revocation of right to practice (Medical, legal, etc.)



Reputational damage



May also lead to criminal charges (Fraud)



Ethics Topics

May include:

Acquisitions
and purchasing

Awarding of contracts

Insider trading

Behavior to employees or
other personnel

Bullying, respect

Intelligence gathering

Competitor

Misuse of data for
personal benefit



Key Points Review



Organizations should carefully develop a code of ethics that can prevent misunderstandings, provide direction and protect individuals and the organization from unethical practices





ISC2 Code of Ethics



ISC2 Code of Ethics

All information security professionals who are certified by ISC2 recognize that such certification is a privilege that must be both earned and maintained.

<https://www.isc2.org/Ethics>



Preamble



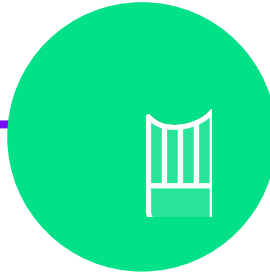
The safety and welfare of society and the common good, duty to our principals, and to each other, requires that we adhere, and be seen to adhere, to the highest ethical standards of behavior.

Therefore, strict adherence to this Code is a condition of certification.

<https://www.isc2.org/Ethics>



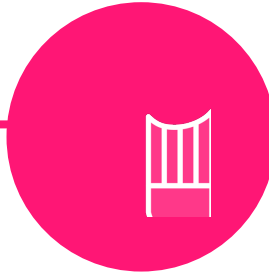
Code of Ethics Canons



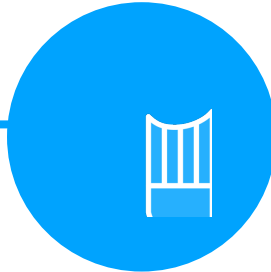
Protect society, the common good, necessary public trust and confidence, and the infrastructure



Act honorably, honestly, justly, responsibly, and legally



Provide diligent and competent service to principals



Advance and protect the profession



Key Points Review



Ethics mandate acceptable forms of behavior

As Information Security practitioners we must follow, and encourage adherence to, good ethical practices

