

Digital Credentials

Where Industry and Education Converge



Digital Credentials

Who is here? Do you want to....

Increase employee engagement and retention?

Find skilled employees and talent faster?

Prove/document employee skills

Increase the security of your workforce

WHAT YOU WILL LEARN

What are digital credentials?

Who uses digital credentials?

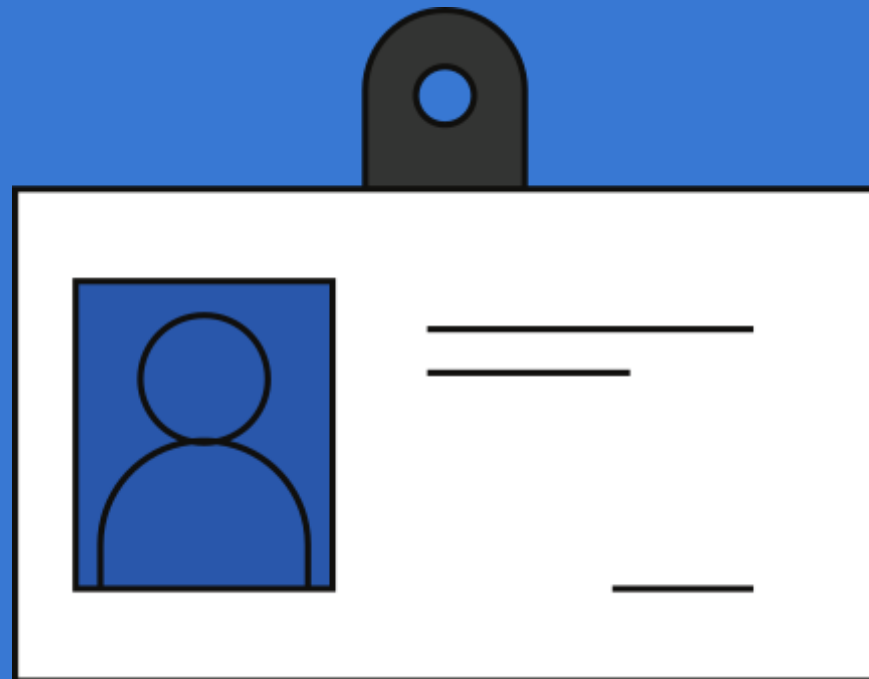
Why should anyone use them?

How to use implement



What are Digital Credentials?

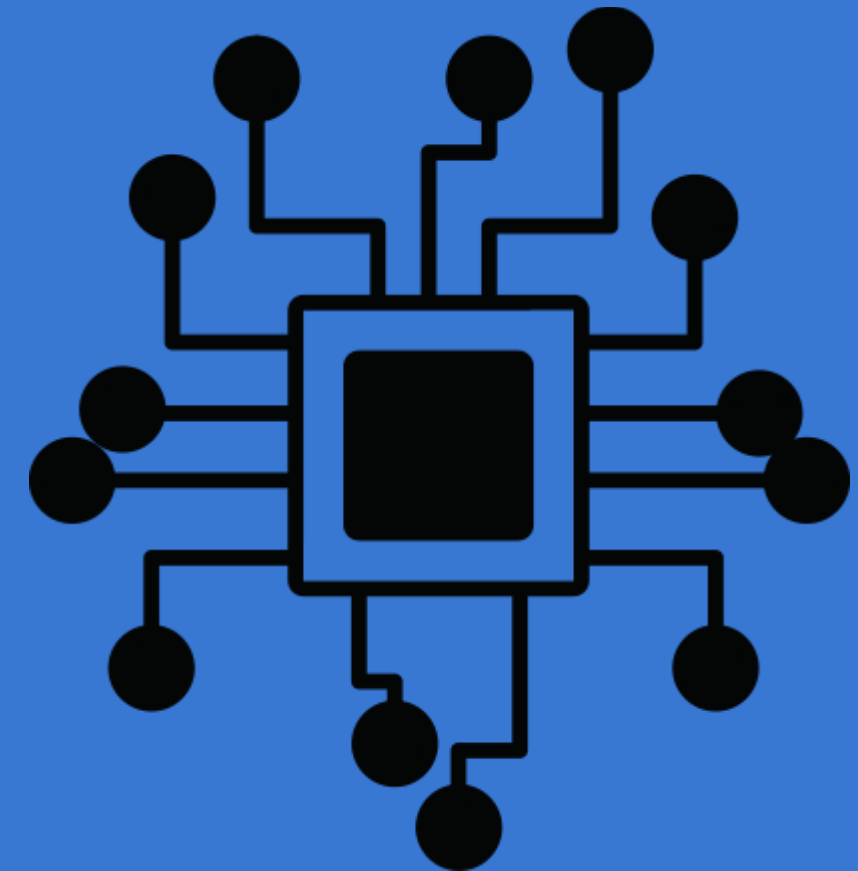
Identify



Authenticate



Data



Type - Badges

Visual



Award



Evidence







Examples



Pitfall 1982
on Atari



USDA

	10
	100
	1000
	10000

Snapchat

Why do we Need Digital Badges?

What is in a degree? Example

How much value do you place on degrees? Why?

Can degrees be forged? What are some implications of this?

Process of creating/building degrees

Shareing degrees

Badges - What they are Not

A Educational Gimmick

New Technology

Participation Trophies - Are CE credits?

Just an Image

Just an Image?

Property	Expected Type	Description
id	IRI	Unique IRI for the Assertion. If using hosted verification, this should be the URI where the assertion is accessible. For signed Assertions, it is recommended to use a UUID in the <code>urn:uuid</code> namespace.
type	JSON-LD type (Multiple values allowed)	valid JSON-LD representation of the Assertion type. In most cases, this will simply be the string <code>Assertion</code> . An array including <code>Assertion</code> and other string elements that are either URLs or compact IRIs within the current context are allowed.
recipient	IdentityObject	The recipient of the achievement.
badge	@id: BadgeClass	IRI or document that describes the type of badge being awarded. If an HTTP/HTTPS IRI The endpoint should be a BadgeClass .
verification	VerificationObject	Instructions for third parties to verify this assertion. (Alias "verify" may be used in context .)
issuedOn	DateTime	Timestamp of when the achievement was awarded.
image	@id: Image	IRI or document representing an image representing this user's achievement. This must be a PNG or SVG image, and should be prepared via the Baking specification . An 'unbaked' image for the badge is defined in the BadgeClass and should not be duplicated here.
evidence	@id: Evidence (Multiple values allowed)	IRI or document describing the work that the recipient did to earn the achievement. This can be a page that links out to other pages if linking directly to the work is infeasible.

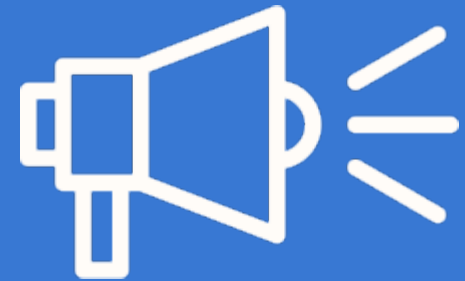
Who uses Digital Badges?



Why are companies using them?



Team Building - IBM



Build Brand



Motivation

Case Studies

IBM's Open Badge Levels



Explorer

Knowledge

Completes a quiz or assessment



Advocate

Skills

Demonstrates a skill or has applied the skill



Inventor

Capabilities

Designs and develops new solutions



Certified

Authority

Has completed a solution, certification or developed a certification



Excellence

Eminence

Deep understanding of highly complex subjects

Gamification

"is leveraging the human need of wanting to compete and facilitating the release of dopamine to increase engagement, participation and loyalty"

Still a pretty early field

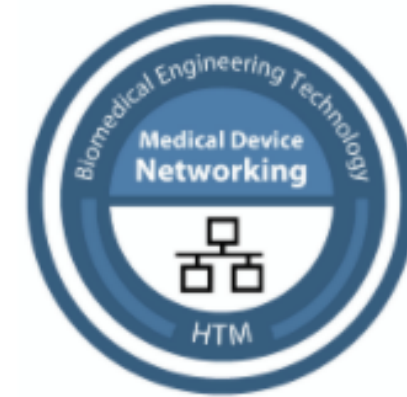
According to Talent LMS

89% of employees like gamified work

Majority thought they would stay longer with the company

How we use Badges

BADGE



CERTIFICATE



DEGREE



How can Industry and Education work Together?

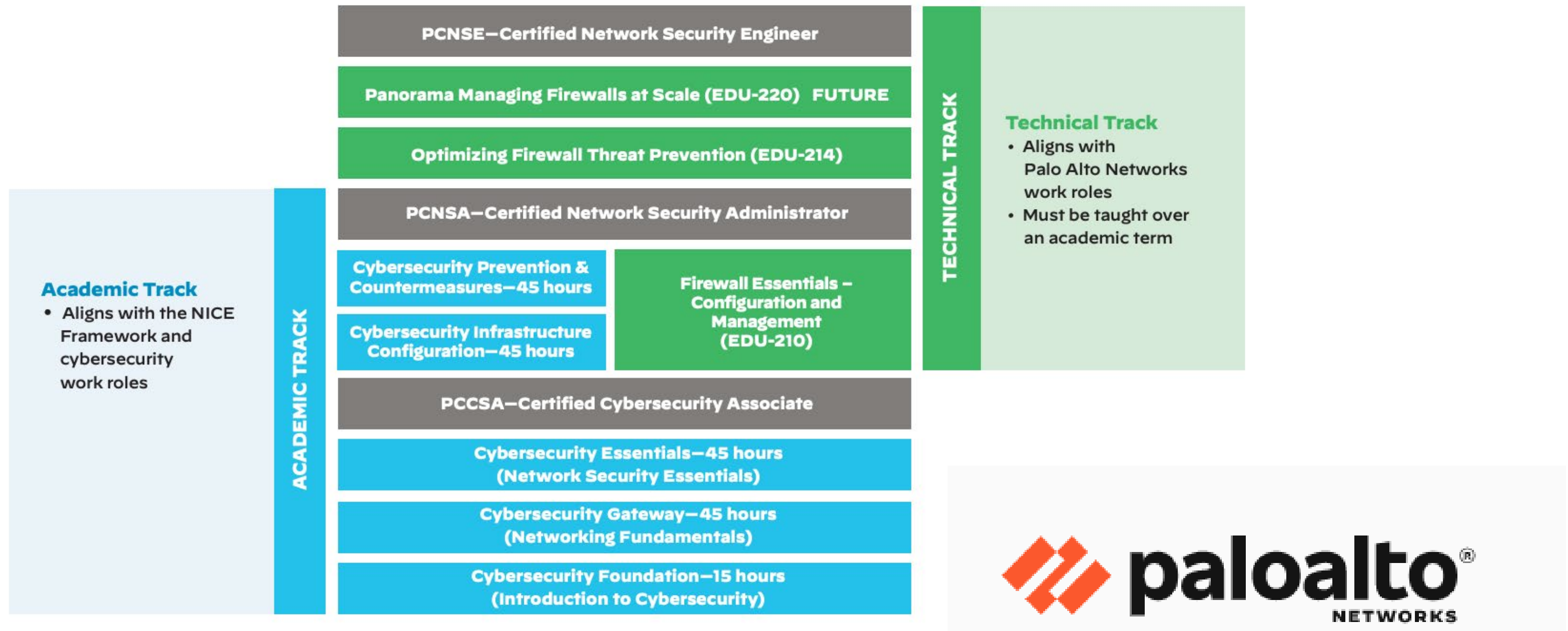


Figure 1: Course and certification roadmap

Process



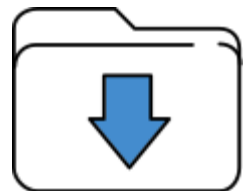
Identify



Create



Evaluate

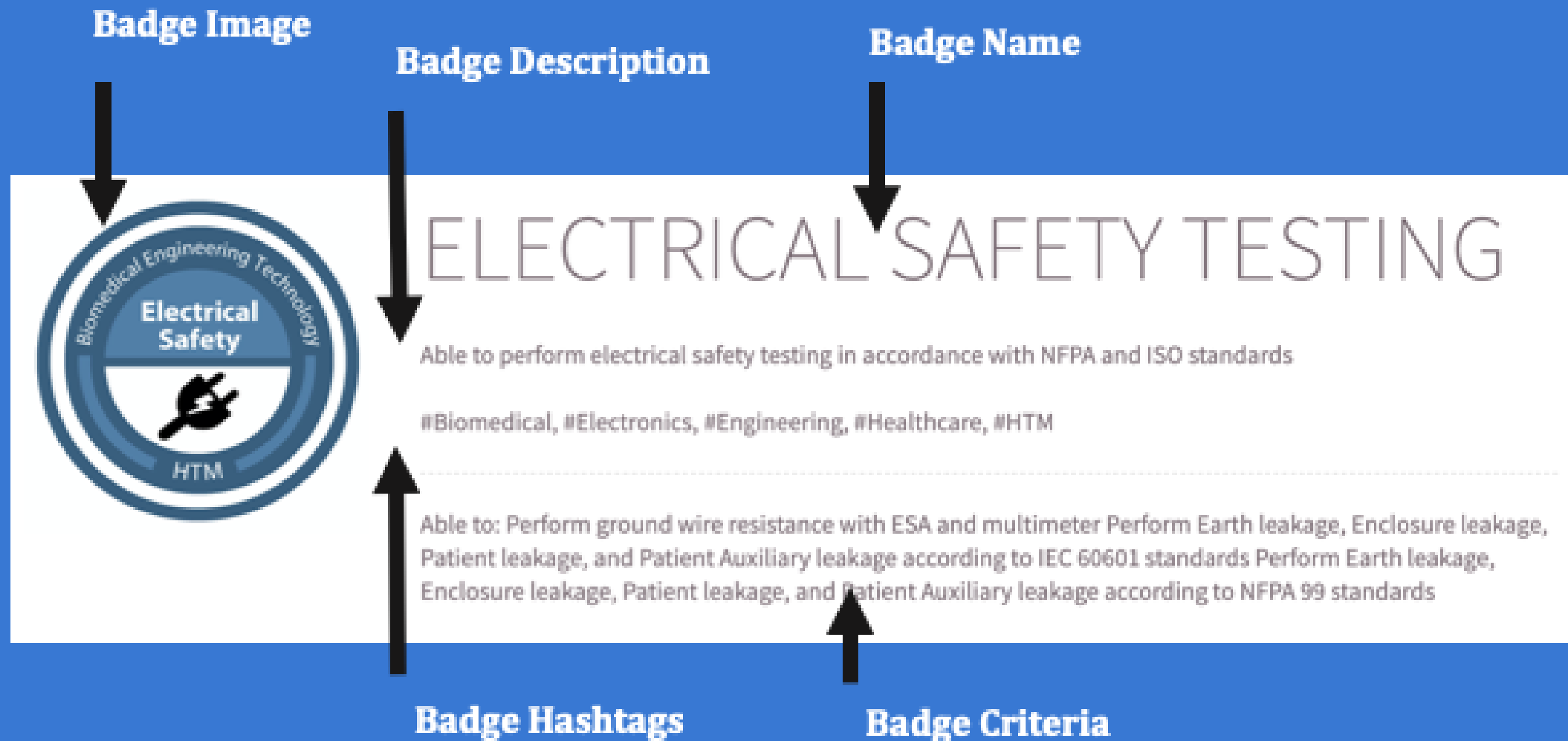


Document

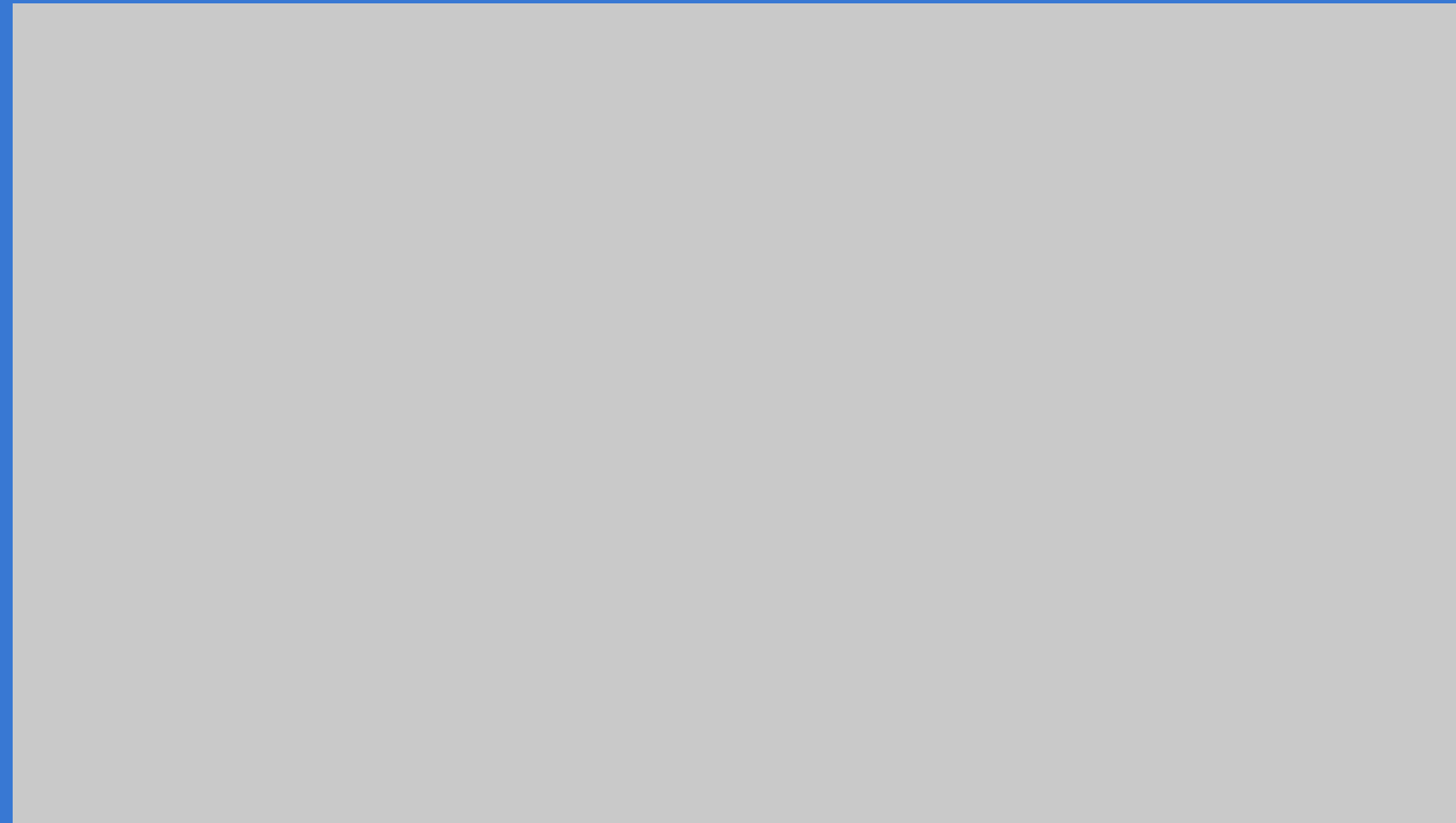


Share

Example of a Badge



Documentation



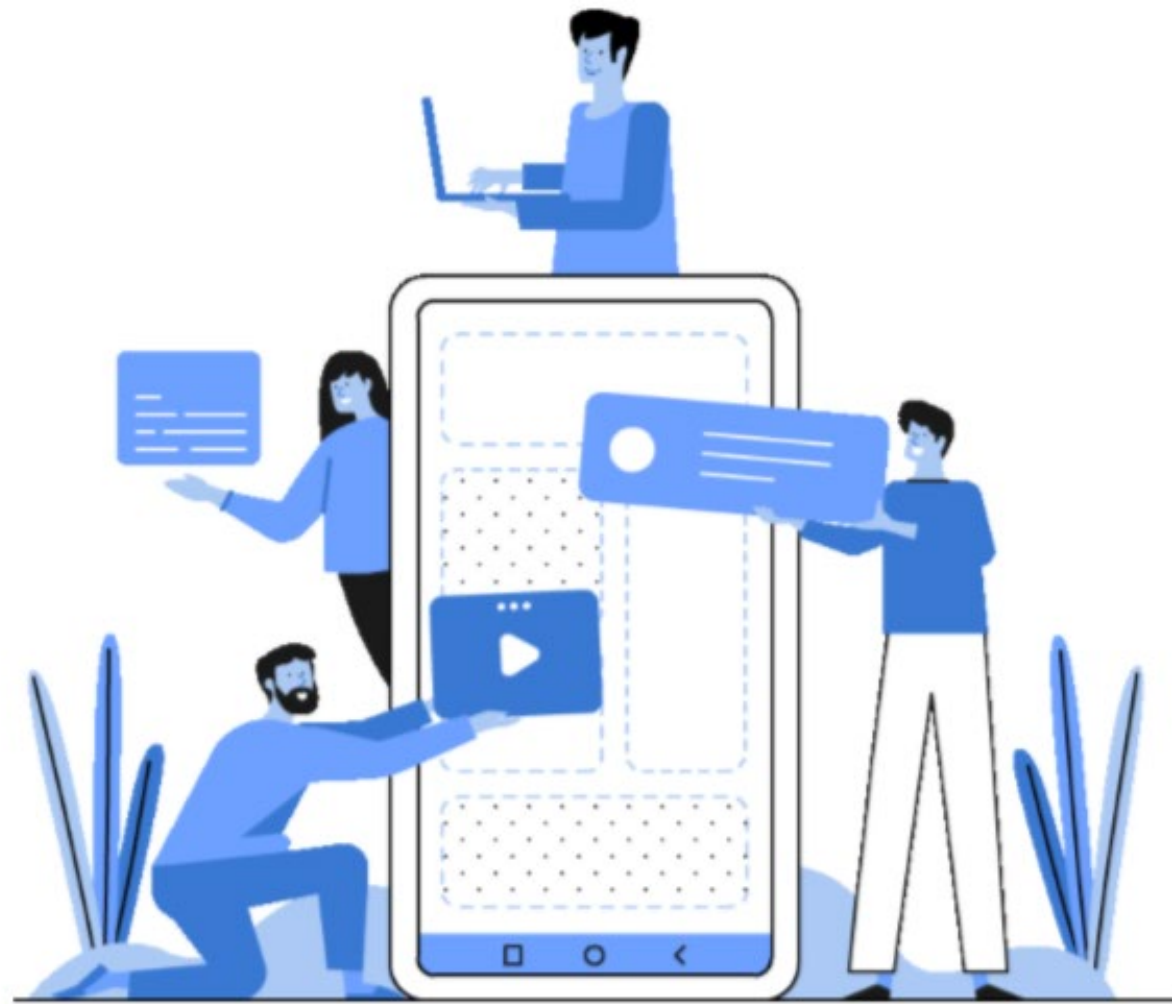
Documentation - A video showing the performance tests (power output, power distribution, high frequency) of the ESU using an ESU analyzer,

Power Distribution- <https://www.youtube.com/watch?v=BE1a54B795o&feature=youtu.be>

Power Output- <https://www.youtube.com/watch?v=V7LiPXkMBT8&feature=youtu.be>

HF Leakage- <https://www.youtube.com/watch?v=PwXLiBPJVAM&feature=youtu.be>

Share and Find



Matthieu BILLAUX • 3rd+
Staff Security Engineer and Team Manager
4mo • 🌐



Digital badge finally arrived.
This was a tough exam, I really enjoyed it!



GIAC Web Application Penetration Tester (GWAPT) was issued by Global Information Assurance Certification (GIAC) to Matthieu Billaux.

[youracclaim.com](#) • 1 min read

👍 🌱 111 • 16 Comments

Reactions



Application for Online Learning

What makes SPC different than others?

How can we make online education work in HTM?

What are the impacts?



Why would this type of model appeal to industry?



Tuition

- Mastery Badge – \$654
- Quest Bundles – \$108-144
- Individual Quest Badge – \$60
- Individual Trek Badge – \$40

Time frame

- Mastery Badge – 16 weeks
- Quest Bundles – 4-8 weeks
- Individual Quest Badges – 1-3 weeks
- Individual Trek Badges – 1-2 weeks

Badge Expiration

Badges in this program expire after three years from the date earned to ensure up to date knowledge of practices in the industry.

Current Work

https://drive.google.com/file/d/1i2mJxd_PtVz6WCKNrvTJxwznWWUFodkE/view?usp=sharing

Questions

So what do you think are some advantages and disadvantages of digital badges?

How might you use digital badges in your organization?

Online options

Tailored training

High school outreach

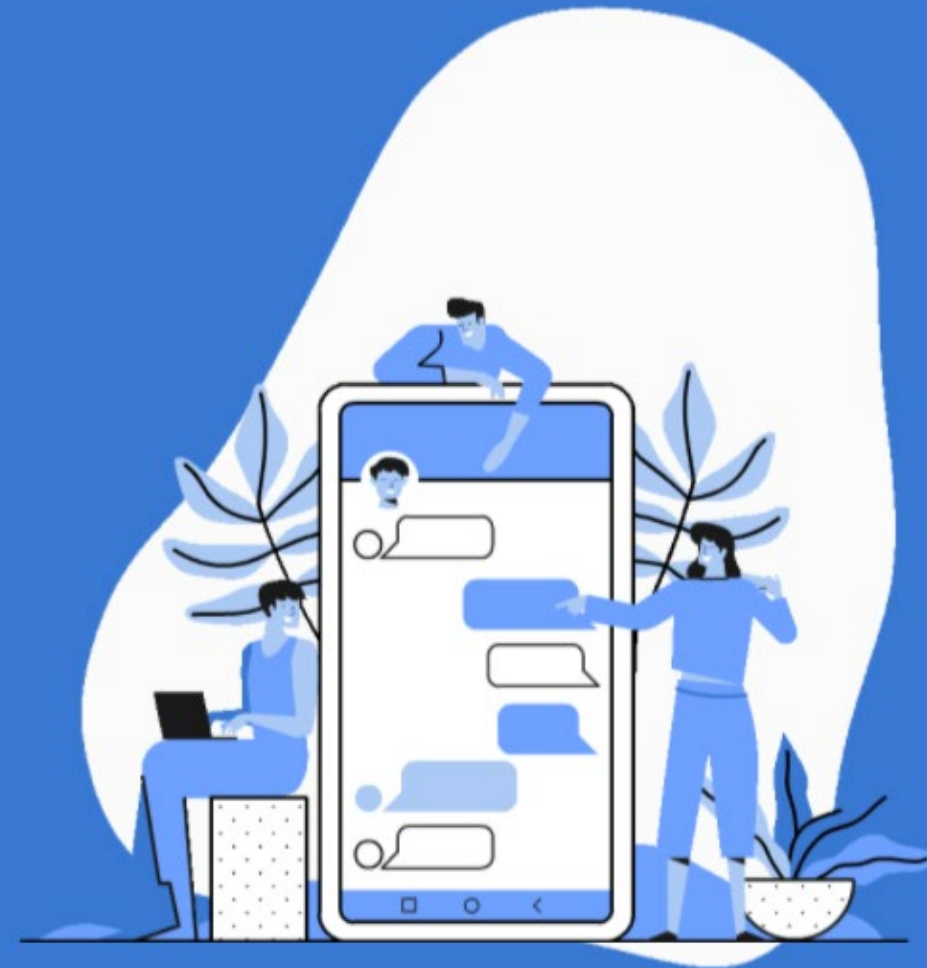
New credentials in high demand skills

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