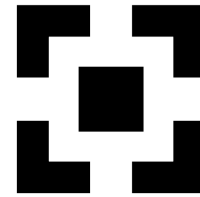


Select the Protected Plateau button to travel to your next location.

Protected Plateau



K2SHARE

Cyber Artifact Explorer: Gamified Web-Based Learning

MOST INNOVATIVE SOLUTION

Online Oasis

Risk Rainforest

Multifactor Mountain

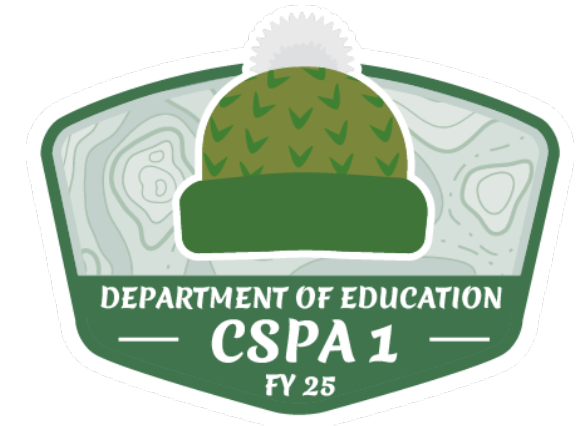
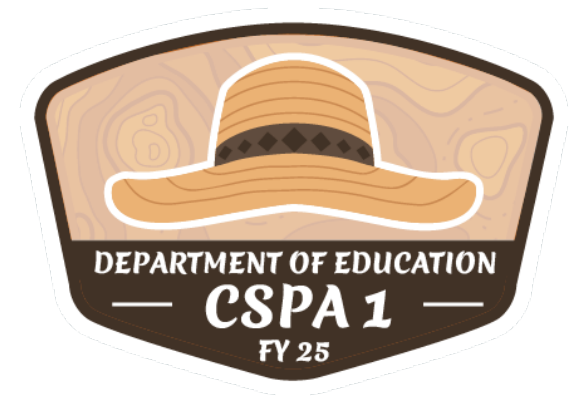
The Concept

- The Cybersecurity and Privacy Awareness course is a **gamified web-based training** created for the Department of Education using **customizable animated characters** loosely based on real life explorers such as Bessie Coleman and Ferdinand Magellan.
- Each character has a **unique voice** that was **generated using AI tools**.
- Game mechanisms such as **avatars, badges, and collecting** are utilized.



Course Premise

- The course focuses on **increasing awareness** of potential risks and vulnerabilities to the **security and privacy of Department of Education information and information systems**.
- Learners are put in the shoes of explorers searching for lost cyber artifacts as they journey around the Isle of Knowledge. Through these exercises, **learners gain the knowledge needed to protect the Department from cyber threats**.
- **Game mechanisms** help learners invest more in the material and **retain information at higher rates**.



It's All in the Hook



- When learners are presented with information, they **need a reason to retain and recall** beyond rote memorization.
- Gamification presents opportunities in the web-based training space to make what could be considered mundane into something more exciting, thereby **incentivizing and enabling true learning**.

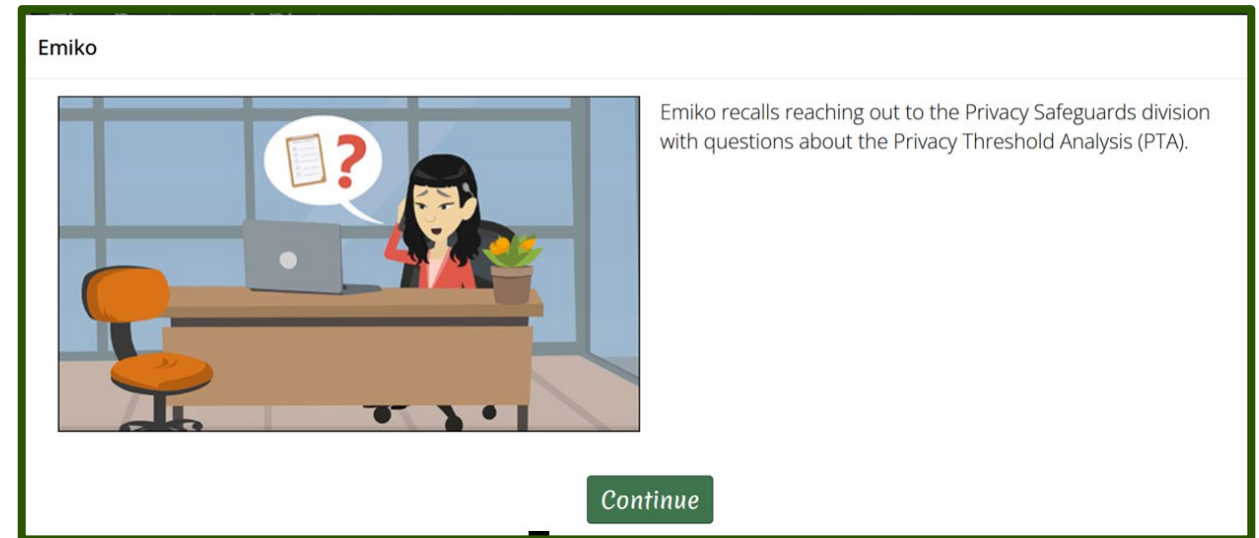
Content Building Upon Content

- Creating scenarios for learners to not just intake information, but **experience memorable locations, characters, and interactivity** ensures that the knowledge gained will be tied to **tangible memory inputs**.
- The dangers reflected in the adventure storyline **parallel everyday cybersecurity challenges** learners face.
- This **dual storytelling methodology** allows for the **real-world application of knowledge** gained.



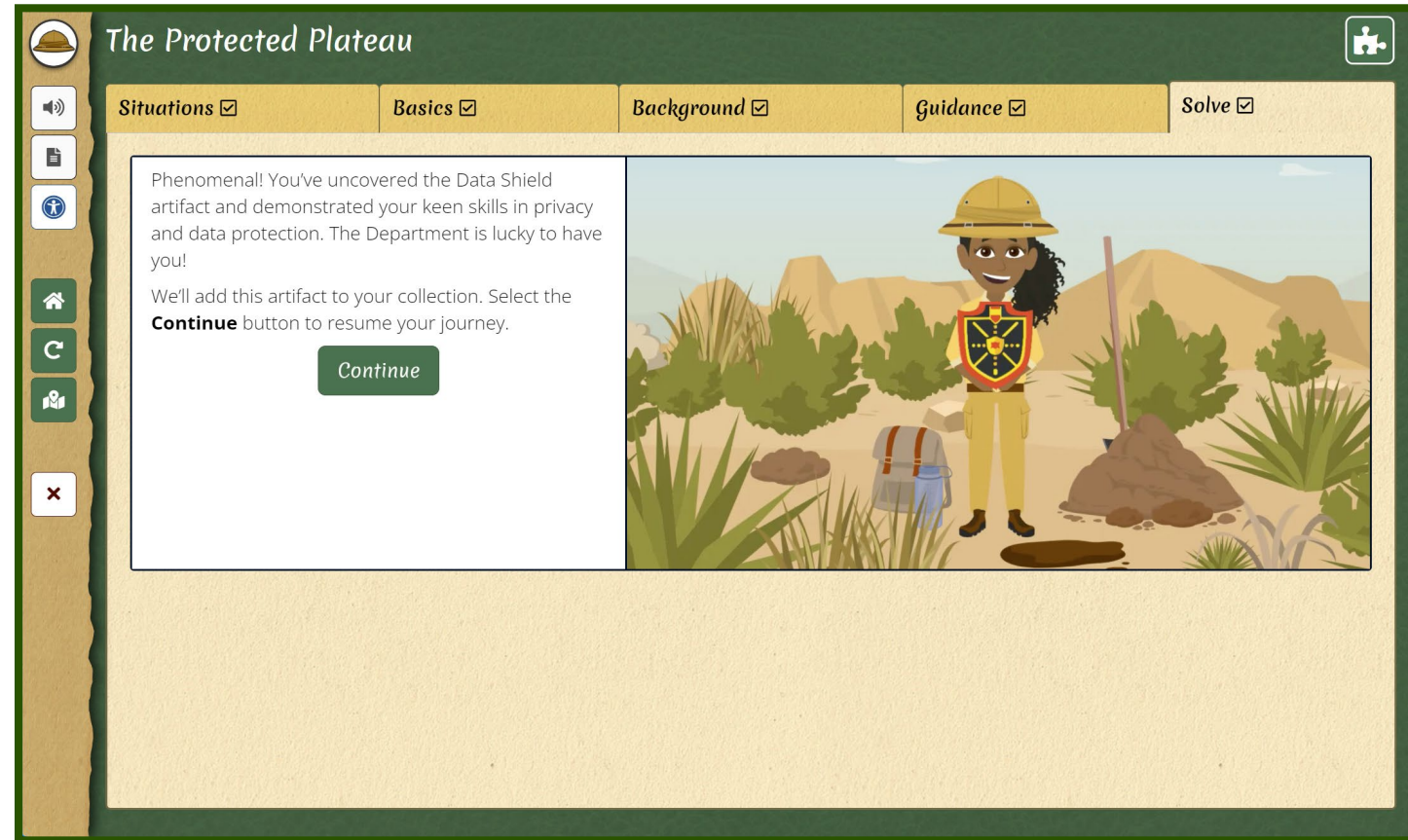
Objectives Map to Memory Triggers

- Each location focuses on specific learning objectives, **building confidence as the learner progresses**.
- This **improves knowledge absorption and retention** and enhances the overall learning experience.
- The varied experiences, which include text, videos, and interactive challenges and inputs, also **appeal to multiple learning styles** — holding learner attention and increasing motivation.



Layers of Learning

Learners can **explore the Basics** of a given topic, **dive into the Background** for more information, and **receive Guidance** from the Department and its resources.



Targeted Testing and Feedback

- Learners can **demonstrate existing knowledge** by testing out of areas where they show proficiency, which is a key feature for adult learners.
- As learners progress through the course, their knowledge is tested on **Solve pages** for each location that present six **questions targeted towards the location's material**.
- With each successive correct answer, part of **that location's artifact is unearthed** — eventually revealing one of the lost cyber artifacts learners have been hunting.



Objectives Achieved

- At the end of the course, learners are presented with **a trophy case containing the cyber artifacts** they uncovered on their journey.
- They also receive a **downloadable badge**, which includes their chosen adventurer's hat from the beginning of the adventure.
- These **course rewards emphasize their accomplishments** and close out their learning journey in a meaningful fashion.



Learner Feedback

Entertaining.

Game format was an incredible addition.

Keep this format. I found it much more user friendly and easier to retain information given the interactive tools.

The test-out feature is great, especially getting full or partial credit in different subject areas which saves a ton of time.

Easy to understand and navigate.

Nice integration.

By far the best I have ever taken.

Allows us to demonstrate skills.

Exceptional.

