

## CASE STUDY

# How Education Scotland worked with TryHackMe To Train Scottish students in Cyber Security



- Scotland's national improvement agency for education
- Supporting quality and improvement in Scottish education, overseeing the delivery of better learning experiences and outcomes

### Challenge

- Introduce Scottish students to cyber security
- Requiring hands-on training so students can learn in action
- Adopting gamified learning with incrementing difficulty to accommodate skill levels

### Results

- ✓ Nine initial topics were covered, including penetration testing, network security, and operating system forensics
- ✓ 100% of teachers asked enjoyed using TryHackMe in cyber security lessons
- ✓ In collaboration with CyberScotland, TryHackMe ran a Capture The Flag (CTF) event for over 1400 students

## ORGANISATION BACKGROUND

Education Scotland is Scotland's national improvement agency for education from early years to adult learning. Cyber crime is estimated to cost the global economy \$10.5 trillion by 2025, approximately £8 trillion. Combined with a lack of skilled workers in the niche, cyber security is - and is growingly so - a crucial focus for education, working towards a fleet of skilled workers to combat cyber crime.

## CHALLENGE

Education Scotland was looking to introduce cyber security topics to students. They needed a platform that was easy for teachers to utilise, monitor, and adopt into lessons, and equally was engaging and valuable to students. Teachers previously experienced challenges in navigating cyber security training - such as school computers blocking the technology and VMs needed to practice ethical hacking and defending in a safe environment.

*Alongside classroom teaching, Education Scotland wanted to run a Capture the Flag competition for over 1400 students to get them excited about cyber security and to learn in a collaborative, competitive environment.*

## OUR PARTNERSHIP

Six schools were chosen for the preliminary launch, covering 100 students. TryHackMe analysed the training rooms best representing the school syllabus to create learning paths aligned to National Progression Awards at SQL levels 4, 5, and 6.

Education Scotland also ran a CTF event with us for 1400 Scottish students. Participants trained in topics including web exploitation, network exploitation, and digital forensics - varied in skill levels. Participants hacked machines and solved cyber security challenges to earn points.

## PARTNERSHIP BENEFITS

Running purely through the browser, TryHackMe allowed students this hands-on experience without process barriers. Bite-sized, practical training showcased cyber security topics in a format transferable to jobs in the market.

Feedback across teachers, students, and Education Scotland was overwhelmingly positive. The management dashboard allowed for progress visibility, swiftly detecting individuals needing extra support. Seeing this privately collated was cited by teachers as a brilliant benefit to keeping tabs on progression.

***“We were delighted to work in collaboration with TryHackMe to provide practitioners with a training resource for cyber security lessons, and also to deliver the Capture the Flag event aimed at building learners’ cyber security skills. This event was a great success with 1,400 learners from across Scotland participating either at school or at home. It is essential that our children and young people are cyber aware.”***

Ollie Bray, Strategic Director, Education Scotland

**Continuously develop and empower your team with immersive training for all experience levels.**

**We pride ourselves on **hands-on quality training, content variety, and engaging, gamified labs.****

Our team of experts deliver reactive, engaging content that upskills employees from complete beginner levels through to seasoned hackers - equipping employees to tackle industry evolutions. Our flexible approach enables businesses to transfer licenses, customise learning paths to align with team goals, and revolutionise training remotely, safely, and with brilliant results.