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Closing the Skill Gap: the added value of an integrated platform for cybersecurity training Webinar, 22 October 2019



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Top Challenges Preventing Focus on Key Cybersecurity Initiatives





A slowly changing mindset

- Solving the skills gap crisis requires a different way of thinking for organizations and talent.
- Cultivating a security mindset is priority for any organisation, as Management only slowly adopts to the importance of cyber security training and awareness
- Expect Awareness budgets to increase in companies
- From an academic perspective, more and more universities are recognizing the need to better prepare their students on Cyber security



How EU is helping? - 1 of 2

- Public Educational Activities

 - ENISA up to date database of courses and certification programmes
 - Education and sharing of good practices
- Competence Network Pilot Projects
 - SPARTA (Strategic Programs for Advanced Research and Technology in Europe)
 - Cybesec4Europe
 - ECHO (European network of Cybersecurity centres and competence Hub for innovation and Operations)
 - **™** CONCORDIA
- Challenges, competitions, hackathons
 - European Cybersecurity Challenge
- - **CYBERWISER.eu**
 - Threat-Arrest
 - Etc.



How EU is helping? 2 of 2

- Recommendations from ECSO WG5 report on Education, Awareness-training & Cyber Ranges
- Commercialisation of higher education with rising costs and growing number of students,
 - The new Generation Z grew up with eLearning and considers it as a matter of course
 - ⚠ Risk of losing students to affordable and widely accessible MOOCS
 → Online courses scale better, can sometimes offer the same level of knowledge at a cheaper price
- To satisfy the growing demand for skilled cybersecurity professionals, we need to:
 - Expand educational opportunities at all levels
 - Increase the number of qualified educators
 - Create synergies between educational paths and training possibilities at the workplace
 - Reach the skilled unemployed and displaced workers (workers who are not happy with their current profession)
 - Create the fundamentals for life long learning in cybersecurity
- More diversity in Cyber Security education and training:
 - Gender diversity and inclusiveness
 - inform and encourage girls and women to engage into cybersecurity careers



How the Training Is Delivered Matters

Remote and On-Site Courses:

Enable your team to train remotely from a satellite location, or on-site with a live instructor.

- Work without deadlines
 - An online, self-paced format allows trainees to consume material at their own pace and in accordance with their learning styles.

filteractive Instruction:

- Some courses are best delivered with a live instructor
 - Allows trainees to ask real-time questions for instant feedback or clarification.
 - Dook for courses that can be offered on-site or live via a remote meeting.



How the Training Is Delivered Matters

- Look for scale and range with training courses that offer everything
- 5-minute training chapter lesson
- Simply 30-minute "how-to"
- 24-hour to 5 days advanced skills development courses

In-Course Labs:

Exercises and evaluations based on real-world scenarios have proven invaluable when applying training material to day-to-day implementation.

Microlearning:

- Bite-sized learning will go a long way in helping employees make the best use of their time.
- Microlearning modules can be easily consumed and are often more effective than lengthy, passive lectures.



Other key features to tackle cyber skills gap

- Talk and adopt to the language of the trainees not vice versa
- Use Gamification or interactive formats
- Incentivise the trainees / training
- Adopt training methods to corporate culture
- Communicate Trainings wisely and with transparency
 - Outline the risks when not doing a training
 - Make the risks tangible for the employees and his organisation
- Make IT-Security training and Awareness more "sexy"



Thank you for your attention! Questions?

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