

Hybrid Cyber Learning On Demand



“If employers aren’t really sure what they want from graduates, how can students learn what they need to know to get a job”

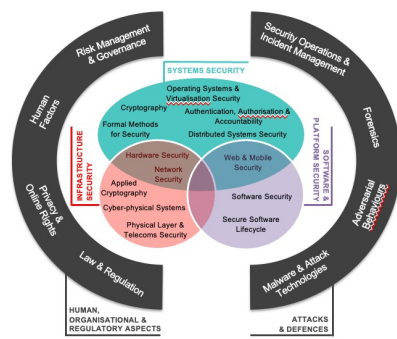
Pro Vice-Chancellor, University

‘Delivered by academics for academics’

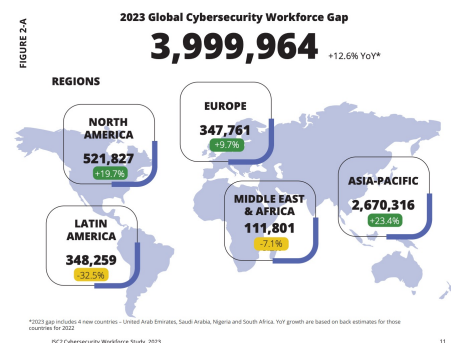
Summary

Cyber is here to stay and it is evolving faster than our curriculum refreshes can keep up with. The cyber industry, however, still insists on demanding ‘skilled graduates’ without actually defining the skills those graduates need. According to the National Cyber Security Centre’s Cyber Body of Knowledge (CyBoK), there are 21 knowledge areas, and each one constitutes a potential career path. In short, it is not possible to delve into all areas of “cyber” in a single college course or university degree and there is now an emphasis on further reading and external exploration in order to complement taught elements within a course. SudoCyber, an award-winning accelerated learning company, has a gamified online learning platform, designed to connect and accelerate the teaching of cyber topics combining in-class delivery and self-paced guided exercises to maximise results and encourage exploration.

Cyber isn’t a subject, it’s 21 subjects!



Employability prospects in Cyber



Filling the nebulous “skills gap” by covering all skills areas

ISC² publish their Workforce Gap every year. It is the gap between the number of cyber job adverts and the number of qualified people to fill them. Or, is it really the gap between poorly written job adverts and the actual qualifications people have? Extra-curricula cyber learning incorporating out-of-class sessions, short courses, self-paced gamified labs, CTF Leagues and focus sessions, dovetailed into your normal courses, will gestalt your cyber capability.

Red Team capabilities

1. The Cyber Kill Chain
2. Active & Passive Reconnaissance
3. Weaponise, deliver & exploit
4. Install, C2 and Actions On

Blue Team capabilities

1. The Cyber Risk Equation
2. Value of digital & information assets
3. Threats to assets incl Compliance
4. Vulnerabilities exploited by Threats

Gamified learning to encourage self-paced exploration

The SudoCyber team will speak from experience and lean into their unique SaaS-based accelerated learning platform, designed to help develop cyber knowledge and capability in learners. The platform can be used as a teaching aid to demonstrate what some cyber attacks look like or a complimentary offering for those who are interested in exploring further to continue at their own pace. It will also help advanced students to widen their skills.



Learn, practice anytime, anywhere

A cyber range with over 1,000+ labs and challenges, that can be filtered by topic, difficulty and technique, that are supported by Streams of labs on popular skills like, AI, Cryptocurrency & OSINT. Accessible through a browser, people can build up their knowledge and develop new skills, at their own pace, alone or in groups, in class or at home. For the more technical-minded, there are also courses, with industry qualifications.

Ongoing, integrated learning to accelerate and broaden cyber knowledge and skills beyond the curriculum

Concept Sessions	Training Courses	Continuous Learning	Group Exercises	Special Interest Streams	Broader Skills Development
<p>Introductions to the true nature of cyber, these sessions will provide background and non-technical explanations to provide a historical and geopolitical backdrop of cyber and motivate people to take more interest in broadening their cyber knowledge.</p>	<p>1-5 day practical courses, for groups of 8-12, on site or at our custom-built secure training facilities. With on-site test center, where candidates can be taught and certified at the same time. Practical hybrid learning sessions using the SudoCyber platform as a teaching aid which students can continue using after the course.</p>	<p>To reinforce the learning and to prevent skills fade, students will retain their licenses to use the platform. This enables you to organize follow-on activities, to keep the subjects alive and SudoCyber personnel can assist on-site or remotely by running short sessions, fun capture the flag (CTF) events and practical tutorials enhancing content of your lessons and filling the gaps of wider cyber skills.</p>	<p>All Sudo staff are either Doctorate or Master’s holders in cyber and/or they are sessional lecturers. This means that they are able to take part in sessions and/or workshops to help with the integration of cyber activities into their normal curriculum. This work will build on the information and understanding imparted during the Concept Sessions and the Continuous Learning.</p>	<p>The platform provides the perfect solution to carrying out targeted training. Instead of (or as well as), normal face-to-face sessions, objectives can be set to complete self-paced labs on key subjects, including but not limited to cybersecurity practices, that will help students to get up to speed and will also help more experienced learners to widen their knowledge of core topics and/or study new, deeper topics that they want to know but is not taught.</p>	<p>Encouraging suitably motivated students who want develop additional specialist skills is good for the individual, good for the institute and good for the industry. Graduates can boast at job interviews about knowledge and skills beyond the topics they learnt by doing their courses, degrees or Master’s work, increasing the chances of having a specific skill that is on-point for the job they are applying for. More capability, more employment options.</p>