

CASE STUDY

Solving the Cyber Skills Gap with Cyber Range Training



Business Problem

Australia faces a growing cybersecurity talent shortage. As sectors like agriculture, transport, mining, and defense adopt digital technologies, the need for skilled professionals capable of identifying and countering sophisticated cyber threats continues to rise. However, many technical and vocational education providers struggled to deliver hands-on training at scale. Without access to practical lab environments or exposure to real-world scenarios, students often graduated with strong theoretical knowledge but limited readiness for live security operations.

Solution Provided

As a long-standing Keysight partner with experience in cybersecurity lab deployment, Phase Pacific collaborated with one of Australia's leading technical and vocational education providers to develop a cutting-edge cyber range training facility. At the heart of the solution was Keysight's BreakingPoint platform, integrated with essential security tools such as next-generation firewalls, SIEM systems, forensic analysis platforms, and incident response tools.

Phase Pacific and Keysight designed and implemented a lab environment that replicates the complexities of modern enterprise and government networks. Students now interact with realistic, simulated cyberattacks in a controlled environment. Our team worked closely with Keysight, collaborating to provide system integration and setup to ongoing updates and technical support—ensuring the platform stays aligned with evolving threat landscapes.

Business Outcome

The result is a fully immersive cyber range that mirrors real-world network architectures and threat environments. Students gain experience using industry-standard tools and responding to simulated cyberattacks that reflect real, current threats. The integration of Keysight's Application and Threat Intelligence (ATI) feeds ensures the scenarios remain timely and relevant.

The provider successfully enhanced its cybersecurity training capabilities, **offering a practical, experience-rich learning environment**. This helped strengthen its program offering and extend its reputation in delivering hands-on, job-focused education.

Business Benefits

Graduates now complete the program with valuable, hands-on experience in managing live attack simulations and securing complex systems. They enter the workforce better prepared to support cybersecurity operations across both public and private sectors—helping address the industry's talent gap and contributing to stronger national cyber resilience.

Our partnership with Keysight empowered the education provider with a future-ready training solution. The facility can continue evolving in step with new threats, ensuring long-term value for students, educators, and industry stakeholders.

About Us

We streamline network labs, software development environments, and IT Operations with advanced automation and orchestration. Additionally, we bolster application security with cutting-edge solutions that focus on efficiency and protection.

Contact Us

Phase Pacific
114 Bakehouse Rd,
Kensington, VIC, 3031
enquiries@phasepacific.com
Ph: +61 3 9381 7818

For more information, go to www.phasepacific.com

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