

University Partnerships

SEL Cyber Services



Cybersecurity education rooted in theory and real-world skills development

SEL Cyber Services specializes in securing operational technology (OT) environments against today's evolving threat landscape. Our team of dedicated cybersecurity professionals deliver a wide range of services, from system assessment and solution development to ongoing management of OT systems.

We also apply our depth and breadth of cybersecurity experience to create impactful educational programming. Our team is passionate about preparing future cybersecurity professionals for success in their careers, and we practice this through delivering educational content and training to universities.

Work with us on a standalone educational experience for your students, on training for instructors, or to develop content that you can integrate into your curriculum. Our programming combines theory with real-world skills development and is customizable to your educational goals and priorities.



Programming

Cybersecurity Student Boot Camp

In this boot camp, students learn about cybersecurity fundamentals and concepts from the NIST Cybersecurity Framework: identify, detect, protect, respond, and recover. We incorporate real-world examples and hands-on activities to deliver a multidimensional learning experience.

The boot camp is designed for up-and-coming security professionals who want to enhance their OT cybersecurity skills. We can scale this program to accommodate your desired class size and customize content to align with your educational goals.

Cybersecurity Train-the-Trainer Course

Our comprehensive Train-the-Trainer course qualifies instructors to deliver the Cybersecurity Student Boot Camp. The course covers the full scope of the boot camp, preparing trainers to successfully deliver the curriculum to future students. Train-the-Trainer courses are conducted in person and provide participants with highly interactive, personalized guidance.

Content Development for Cybersecurity Courses

SEL Cyber Services partners with instructors to develop content for university-level cybersecurity courses. Work with us to modify content or build content from scratch to meet your educational goals. Our approach aligns relevant theory with the practical application of cybersecurity concepts, providing students with knowledge and skills they'll apply as industry professionals.

Cybersecurity Equipment for University Labs

We value hands-on learning and giving students the opportunity to work with cybersecurity technology they'll encounter in their careers. We equip university labs with industry-leading cybersecurity devices that introduce new research and educational opportunities to the classroom.



Sample Schedule—Cybersecurity Student Boot Camp

Below, we've provided an example schedule for our educational programming. Please note that we will happily customize the content and duration of programming.

Day 1

Morning

Introduce the OT environment, and discuss how it differs from an IT environment. Discuss cybersecurity fundamentals and the importance of OT cybersecurity. Students will perform a physical lock-pick exercise that demonstrates the importance of physical security.

Afternoon

Discuss the “identify” function of the NIST Cybersecurity Framework in depth. In a lab activity, students will explore Wireshark functionalities and how to use them effectively in an industrial control system (ICS) environment.

Day 2

Morning

Discuss the “protect” function of the NIST Cybersecurity Framework in depth. In a lab activity, students will practice setting up firewall rules for ICS protocol traffic and verify their functionality.

Afternoon

Discuss the “detect” function of the NIST Cybersecurity Framework in depth. In a lab, students will learn to use the Splunk tool for monitoring in an ICS test bed demonstration environment.

Day 3

Discuss the “respond” and “recover” functions of the NIST Cybersecurity Framework in depth. Students will engage in several tabletop exercises that demonstrate their new incident response and disaster recovery knowledge.

For more information, please contact us at secure@selinc.com.



“SEL Cyber Services did an outstanding job on this workshop. It was dynamic, interactive, and informative training for our students, and I have received positive feedback from them so far.”

Mohammad Reza Khalghani, PhD

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