



# Center for Cyber Security Engineering and Technology

## Training, Consulting and Audit Services



The University of San Diego Center for Cyber Security Engineering and Technology is designed to assist business, government, law enforcement, and private citizens to better prepare and respond to highly motivated, highly trained adversaries that are responsible for billions in lost revenue each year; catastrophic disruptions in service; and constant peril to critical infrastructure systems. According to the FBI, these types of threats are utilizing tactics and techniques that would defeat over 90% of cyber security products currently on the market.



### USD's Center for Cyber Security Engineering and Technology Services

In addition to educational courses and degrees, CCSET offers **Training, Consulting and Audit services**. CCSET/TCA services have been developed to help organizations in creating a cyber-security minded corporate culture, to address relevant cyber topics your organization faces and apply directly to an organization's technical and policy-driven cyber threat mitigation goals. CCSET/TCA services cover specific and/or emerging topics in cyber security. For example, cloud security, cyber security criminal law or digital evidence collection/preservation could all be training topics. All of our CCSET/TCA services are delivered by members our faculty/fellow practitioners, with decades of experience deploying cyber security solutions for many high stakes customers. Many of our faculty comes from the defense sector where they faced the type of advanced persistent threats now causing substantial damage to American business.

**Set up a meeting today to discuss your cyber security training needs.**

Call (619) 260-4564 or email [mcast@sandiego.edu](mailto:mcast@sandiego.edu).



## Training Services

CCSET/TCA provides training programs tailored to specific organizational needs. Training programs can vary from a ½ day program for general staff cyber cultural development to in-depth, multi-day, interactive trainings for targeted staff, executives or anything in between. These training are generally intense, and meant to transfer applied knowledge and skill in a focused, immersive fashion. Our training programs are conducted by members of our highly trained and experienced faculty/fellow practitioners and are an easy way for your organization to stay current in this critical and rapidly changing field.



## Consulting & Audit Services

CCSET/TCA provides Consulting & Audit services for organizations concerned about the state of security, or groups who may be building new solutions and want to design with a strong security foundation. Cyber is the new front door to your business. Anyone who wants to harm your organization or steal your property does not need to be physically present. This creates a constant threat from external sources, and a constant opportunity for insider threats. With the interconnection of systems and the proliferation of company information into the digital space, if there is any asset (from intellectual property, to money, to reputation) that may be at risk, one must consider how cyber fits into this picture. CCSET/TCA supports this mission in three distinct ways:

**1. Evaluation of systems** – performing audits of all or parts of a system; evaluation of potential products from vendors; assessing general risk posed by threats; helping to identify or augment testing strategies; vulnerability assessment

**2. Evaluation of policy** – performing audits of security policy; reviewing access control policy and procedures; reviewing privacy policies and practices; information classification; ownership

**3. Incident management and prevention** – forensics support; investigation strategies and planning; logging and monitoring strategies; incident management; recovery strategies; business intelligence; business continuity planning



## Operational Services

CCSET provides guidance in designing and implementing threat mitigation strategies and can assist in setting up a requirements process based on system evaluation, organizational policy, and need. We can then help to set up a procurement and vendor scoring process, by which the outlined requirements are strictly adhered to by third parties. Finally, CCSET/TCA can provide oversight and guidance in the implementation of solutions. Please note: the University of San Diego will not administer systems or provide direct technical support outside of advising the client.

In some circumstances, organizations have challenges that may be beyond the current capabilities of the vendor marketplace. In this case, CCSET/TCA can provide a research mechanism to support. Our highly trained and experienced professors will work with student research assistants to provide results in a variety of topics. Please let us know if there is interest in pursuing a research direction and we will work with you specific need further.

Please note: we also have the capability to perform research at the classified level.

### CCSET/TCA Cyber Security topics that can be addressed by CCSET/TCA experts:

- Cyber security foundations/fundamentals
- Network security
- Trusted systems
- Secure engineering
- Secure software development
- Forensics
- Cyber policy
- Cryptography
- Vulnerability assessment
- Incident response
- Cyber analytics
- Asset/Information classification
- Access control and management
- Cyber risk management
- Secure architecture design/development
- Cyber law
- Cyber policy
- Cyber strategy
- Cyber operational planning
- Security assessment
- Cyber security audits
- Cyber testing
- Authentication
- Identify
- Privacy
- IP security
- Digital evidence
- Network attacks
- Computer attacks
- Cyber crime
- Law enforcement + cyber investigations
- Advanced persistent threat
- Hacktivism
- Cyber terrorism
- Cyber-physical systems
- Mobile device security
- Cloud security
- Virtualization security
- Network visualization
- Business intelligence
- Cyber investigations
- Incident response
- Business continuity
- Cyber-attack recovery/survivability
- Cyber incident management
- Software assurance
- Risk management framework
- Continuous monitoring
- Critical infrastructure protection
- SCADA systems
- Cyber liability
- Cyber insurance
- Hybrid cyber threats

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