

Cybersecurity Training



Chiron Technology Services, Inc.

Create the Future



Current State

Cybersecurity has become one of the most important IT disciplines for industry and governments. The number of computer security incidents - and the level of sophistication at which these attacks are being carried out - is growing proportionally and exponentially.

Problem

There are not enough trained professionals with deep technical expertise in cybersecurity. Current players - law enforcement personnel, national-level agency personnel, incident responders, and the industry's security professionals - do not have enough of the real world practiced foundation to learn how to prevent, detect, and respond to complex and dynamic cyber incidents.

Solution

Chiron supports one of the most advanced cybersecurity labs in the world. We provide cross-spectrum cybersecurity training - from Digital Media Forensics, to Network Forensics, Penetration Testing, Ethical Hacking, Network Attacks, Smart Phone R&D, and more.

The Old Way

IT training providers continue to struggle to keep pace with the rapidly emerging technology and techniques used by cyber criminals. Current training is outdated, often irrelevant to an investigator's day-to-day responsibilities and high operational tempo, and lacks the critical hands-on training experience needed to truly refine and hone the security professional's tradecraft. In many cases, training is conducted in places ill equipped for such classes. Students are cramped together and forced to use personal laptop computers, while struggling to follow along with a disorganized and incomprehensible curriculum. After heavy investments in time and money, future incident responders find themselves requiring significant amounts of additional training and lead-in preparation before being able to operate effectively in today's technology environment.

The New Way

Chiron's cyber training mantra is simple - **train like you fight**. Chiron's cleared instructors have years of real-world experience in the areas of digital media forensics, network forensics, computer network exploitation, cell phone acquisition and recovery, network analysis, and more. Our staff challenge students using the most real-world scenarios possible based on today's dynamic cyber environment - highly technical and hands-on. In modern and spacious classrooms, students forensically analyze many types of digital media, and then prepare detailed reports throughout scenarios, spanning operationally relevant topics such as counter-terrorism, domestic crime, fraud, and network compromise. Students train on state-of-the-art equipment, in a laboratory environment free from rigid network security constraints that often preclude real-world training. This new way of cyber training enriches the student experience and leverages real-world challenges.

A Sample of Chiron Cybersecurity Training Classes

Chiron offers over a dozen different cybersecurity courses to help with certification and competition requirements. Here are highlights of some of these courses. Contact us to learn more about these and all of our classes.





The Threats Have Changed

With the rapid growth of portable data, storage, and communication devices, critical information is being electronically passed at an increasing rate. Modern cyber technology has not only opened more doors for cyber criminals of any experience level, but it has emerged as an instrument of power for enemies seeking to deny, degrade, and disrupt commercial and government information systems. Now, more than ever, it is vital that IT personnel, incident responders, and cybersecurity experts receive the level of technical training needed to hit the ground running - greatly reducing the on-the-job training burden and dollars currently placed on organizations.

The FBI reports that 108 countries have "dedicated" cyber attack capabilities. In 2009 alone, the Internet Crime Complaint Center reported a total dollar loss of \$559.7 million - up from \$264.6 million of "reported" losses in 2008. These alarming statistics prove that there is neither the time nor the resources available for organizations to pick up the training slack left behind by conventional cybersecurity training providers. Let Chiron help you hit the ground running. For real-world cybersecurity training, Chiron creates the future.

Digital Media Forensics

Digital media contains a significant amount of critical data contained within files existing in plain sight as well as those that are hidden and/or deleted. Chiron computer forensics training courses teach prospective forensics examiners the approach to document and media exploitation (DOMEX) with the goal of optimizing the analytic workflow. Taught by cyber professionals with extensive experience not only in exploiting captured devices, but also with experience establishing forward DOMEX environments, the course prepares students to use a variety of COTS, GOTS, and FOSS technology to solve real-world forensic issues. The training focuses on the extraction of useful and actionable intelligence that is immediately available for injection into collateral and corporate databases.

Chiron's forensics courses are taught from an all-source perspective to have an immediate impact to analytic efforts. Students learn how to obtain useful and meaningful leads that can be correlated across databases and other services. The training bridges the gap between the rapidness of tactical exploitation needs and the complexity of media exploitation. This is unique in the industry, since many course offerings assume a student has an advantage of very long forensic timeframe. Our training teaches students how to act quickly. The training environment is interactive, and the students work on multiple case files in a hands-on environment. Students will be exposed to common and obscure media devices found all over the world.

Network Forensics

Specialized network forensics analysis techniques include suspicious data traffic reconstruction and viewing techniques. Other facets incorporate the recognition and analysis of common exploits and attacks. Chiron's network forensics training courses teach network analysts not only the process of capturing suspicious network data, but also the ability to recognize and extract unusual patterns hidden within seemingly routine network traffic. The training focuses on the processes used by computer hackers to enumerate, penetrate, and maintain access throughout computer networks. Each student will build a virtual network and participate in extensive, hands-on laboratory work to include network attack and forensic analysis exercises.

Smart Phone Research and Development

Students will extract physical memory from cellular devices, and then engineer this data into an exploitable form. Students will learn GeoCyber techniques to extract GPS data from EXIF metadata, determine last known tower info, and extract spatial information found in files and phone settings.



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