LAW ENFORCEMENT TRAINING OPPORTUNITIES

Cybercrime Investigation and Forensics[*]

Introduction to Internet Crime Investigations

This training introduces law enforcement investigators to the ways in which criminal activity is perpetrated within online computer networks and instructs them in techniques and software tools for working these cases online. This 1-day course will introduce compelling topics to participants, who will leave wanting to learn more. Attendees will be exposed to Google as an investigative tool, identifying users of MySpace.com and other social networking sites, tracing e-mails and web sites, understanding Internet Protocol (IP) and how to trace IP addresses, and who owns a specific web site and where to serve search warrants.

The Investigation of Computer Crime

The Internet is alive and well, and is a dynamic resource for millions worldwide. It is also a place for criminals to prey on unsuspecting victims. Many victims are children, some are adults, while others are corporations. This 4½-day course teaches criminal justice investigators and support staff how to investigate high-technology theft and computer-related crime. It provides participants with an understanding of computer technology, its application to criminal endeavors, and the issues associated with investigating these cases. This course will provide current real-world case studies and solutions that can be adapted to current investigations. Topics will also include identity theft, Internet-based fraud, child exploitation, hacking and compromised systems, and phishing.

The Seizure and Examination of Computers

This course teaches criminal justice investigators the basic concepts of computers and digital evidence recovery. The 3-day course teaches investigators new to high-technology crime how to safely seize a computer system, make duplicate images of hard drives, and recognize compressed and encrypted data. Participants will become familiar with forensic software and the basics of digital evidence analysis. The course will also discuss directory structure and how it can impact your investigations, file headers and extensions, steganography, and encryption and how it is used.

---

[*] For more information on these training courses, visit www.search.org/services.

Investigation of Online Child Exploitation, Level I
This 1-week course provides law enforcement investigators and support staff with the skills necessary to conduct proactive Internet investigations involving child exploitation. These include how to initiate criminal investigations, establish undercover accounts and identities, and engage offenders legally and effectively. Attendees will learn the current trends of pedophiles online in 2007, and how they target their victims using various methods including MySpace, chat, and other web-based methods. Topics will also include victimology, profile of the child predator, and state versus federal prosecution: how to help each other.

Investigation of Online Child Exploitation, Level II
This 4-day Level II course expands on the learning modules and fundamentals introduced in the Level I course, and includes a detailed study of the Internet using America Online, Google, MySpace, and other online resources as investigative tools. Topics include peer-to-peer (Bear Share, BitTorrent) investigations; desktop surveillance and advanced investigative resources; virtual child pornography, which includes video enhancing and morphing; Yahoo, chat, and clubs; F-serves; downloading and configuring AIM, Trillium, FTP, Cute FTP, and ICQ; identifying other software programs; instant messaging as a tool and an investigative resource; and seeding information to newsgroups and IRC. Attendees will learn using real-world scenarios presented by a cadre of instructors.

Advanced Internet Investigations
This intensive, 10-day course is designed to improve law enforcement's ability to successfully investigate and prosecute sophisticated crimes carried out over the Internet. Topics include the technical structure of the Internet, investigative methodology and tools, use of audit logs as evidence, legal and privacy issues, strategies for proper case preparation and presentation, host operating systems and system security, monitoring activity on an Internet host system, tracking suspects over the Internet, and other issues affecting the recovery of evidence from the Internet. The course will also examine the progression of computer crime, how Internet crime affects society both economically and emotionally, documentation and preparing for search warrants, and real-world case scenarios.

Proactive Online Prevention for Schools (POPS)
POPS educates school resource officers and educators about Internet safety skills and how to make highly effective, knowledgeable, and informative presentations to students on Internet safety issues. This 3-day course combines a review of several Internet safety programs with hands-on computer instruction and a curriculum that provides trainees with knowledge of what youth are often confronted with when accessing the Internet and online environments. Participants will be exposed to how students use the Internet, what and where they can get into trouble, victimology of the child, profile of the child predator, and resources.

Advanced Responders: Search and Seizure of Networks
This new and paradigm-changing course expands a law enforcement investigator's ability to collect digital evidence at crime scenes. Extensive research has been conducted in the area of Small Office/Home Office (SOHO) networks common today with broadband Internet connections. Traditional digital evidence collection methods frequently result in evidence being left at the crime scene or potential evidence being inadvertently deleted from computers entirely.

This 3-day, hands-on course instructs law enforcement investigators in the skills and techniques of (1) how to conduct pre-raid electronic surveillance of a target location to help identify wireless networks and access points, and (2) how to locate these networks and access points once the scene is secured. The course material also covers how to recover volatile evidence from common SOHO routers and from running Windows systems, how to make an image of the running memory (commonly referred to as RAM) of a Windows computer, and how to recover information about wirelessly attached devices to a computer. The final practical exam for the course includes an actual search of a SOHO network. The course will also address how to identify routers, switches, and hubs; where does volatile memory reside and how to capture it; and understanding the WAN/LAN and SAN.

Core Skills for the Investigation of Cellular Telephones
Cellular telephones are more common today than computers. Terrorist attacks, rapes, assaults, drug-growing operations, child exploitation, and many other crimes are committed using cell phones. These phones can contain a wealth of evidence for law enforcement. To conduct a thorough investigation, data has to be retrieved from cell phones and properly analyzed. This 4-day course teaches investigators how to approach the investigation of cellular devices and how these devices are different than traditional computer-based investigations. It covers the basics of cellular networks and how cell phones function in those networks, as well as the current hardware and software required to obtain evidence from cellular devices. Law enforcement officers, investigators, analysts, and forensic examiners attending this course will obtain the basic skills necessary to conduct cell phone investigations and retrieve data from seized phones. Through hands-on training, course attendees will learn using the latest tools and data collection methodologies available.

Gang Reduction

Gang Resistance Education And Training (G.R.E.A.T.) Program
G.R.E.A.T. is a school-based classroom curriculum designed to prevent delinquency, youth violence, and gang membership. G.R.E.A.T. lessons, which are taught by law enforcement officers, focus on providing life skills to students to help them avoid delinquent behavior and using violence to solve problems. Sworn law enforcement officers must be certified to teach the G.R.E.A.T. curriculum through one of many regional training sessions offered throughout the country. For more information about G.R.E.A.T. and other training related to gang and youth violence prevention, visit www.great-online.org/.

Information Technology[†]

Compliance Training Seminar: 28 Code of Federal Regulations (C.F.R.) Part 23
The 28 C.F.R. Part 23 guideline, which covers law enforcement agencies, contains implementation standards for operating federally funded, multijurisdictional criminal intelligence systems. It applies to systems operating with federal funding under Title I of the Omnibus Crime

---

[†] For more information on these training courses, visit www.ijis.org and select "Education & Training" tab.

Control and Safe Streets Act of 1968, as amended. BJA funds technical assistance and a ½-day class that provides information on guidelines for operating criminal intelligence systems. For more information, visit www.iir.com/28cfr.

Project Management Course for Integrated Justice Information Systems
This course is designed for individuals responsible for the planning, procurement, and management of programs involving the sharing or exchange of justice-related information. This information may include data generated by courts, law enforcement, prosecution, probation, parole, corrections, and related social service agencies, either within a single jurisdiction or across jurisdictions. The course is designed for project managers, not technologists. It offers a comprehensive curriculum designed to provide basic and advanced skills necessary for managing projects involving the complex implementation of justice system integration.

Justice Technology Training Series
The Technology Training Series is designed for both managers and technical staff. The training varies from basic introductions to a more indepth review of technical concepts and components. The technical training agendas can be tailored to the individual needs of the requesting agencies, both in terms of content and duration. Highlights of each agenda include:

> **Information System Security Training**
> Participants will examine the unique challenges of securing integrated criminal justice information systems, and explore the technologies that contribute to a secure system. The course presents information about best practices and what works in securing integrated justice projects, and looks at administrative and management issues in implementing security protocols.

> **XML Training**
> • **National Information Exchange Model (NIEM) Executive Briefing:** This 4-hour briefing provides an overview of NIEM and is targeted for senior executives and decision makers. Topics include government eXtensible Markup Language (XML)-related standards and initiatives, the benefits of NIEM, available resources, and successful implementation examples. A similar briefing is also available for the Global Justice XML Data Model (GJXDM).
> • **Introduction to XML:** This 2-day course provides an overview of basic XML technical concepts and introduces NIEM. The program explains how XML and NIEM are being used in the justice and public safety communities. The delivery methodology mixes classroom presentations with numerous trainer-facilitated, hands-on exercises.
> • **XML Practical Implementers Course:** This 2 ½-day advanced training workshop is a highly-technical session that features hands-on exercises and experienced presenters. This course is intended for developers and implementers, where previous XML knowledge is strongly recommended. Topics include a technical overview of NIEM, the NIEM development process, domain modeling and mapping, and NIEM implementation and migration strategies. This course is also available on Global Justice XML implementation training.

Information Sharing and Data Mining Course
This course teaches participants how to use technologies and software approaches to create information out of data. It covers topics such as the use of data warehouses, analytical software, and portal technology. It also contains presentations and demonstrations of systems that help participants make sense of raw data and provide actionable intelligence.

Web Services and Service-Oriented Architectures Course
This course teaches participants how to apply advanced technologies, such as the Global Justice XML Data Model and the National Information Exchange Model, to actual systems through the use of web services and the adoption of Service-Oriented Architecture (SOA). It provides a basic introduction to the concepts of web services and SOA, and the emerging development of the Global Justice Reference Architecture (JRA), which will soon provide a roadmap for how to apply SOA concepts within the criminal justice landscape. The course also includes a demonstration of how to build a web service and explains the role of other standards such as Simple Object Access Protocol (SOAP), Web Services Description Language (WSDL), and Universal Description, Discovery, and Integration (UDDI) components. Lectures and exercises require some basic knowledge of information systems technology and some understanding of XML.

Road Map for Information Sharing Seminar
The Integrated Justice Information System Institute and the National Criminal Justice Association offer a 16-hour seminar following on a highly successful past seminar series about emerging technology for decision makers. This new series of 11 sessions is designed to help managers who are or may become involved in implementing information-sharing technology among law enforcement and criminal justice organizations to increase the effectiveness of justice processes and provide greater homeland security. The seminar agenda is not a highly technical detailed set of lectures for programmers, but a closely connected series that explores useful aspects of information sharing in the justice community of interest. Although there will be demonstrations to show the "how-to," they are for illustration purposes and are not detailed training in the applicable skills of computer science or applications development.

Law Enforcement[‡]

Small Departments Training Program
Many smaller police agencies (25 officers or less) are isolated from the network of national information and resources by virtue of their remote locations and limited resources and training. This training will help small departments on topics such as acquiring new technology, police leadership, team-based management, mentoring, internal affairs, web site design, and grant writing. For more information, and registration information, visit www.theiacp.org/Training/2005IACPTrainingCatalog.pdf.

[‡] For more information on these training courses visit www.nw3c.org/ocr/courses_desc.cfm.

Volunteers in Police Service (VIPS) Regional Training Series
This training series provides attendees with an understanding of both the theories and practices related to developing a law enforcement volunteer program. The training will introduce attendees to VIPS and the law enforcement volunteer resources that the program offers, and provide attendees with the knowledge and skills necessary to implement a law enforcement volunteer program. The training is designed for agency representatives and volunteer coordinators responsible for the development and implementation of a volunteer program. For more information and course registration, visit www.policevolunteers.org/training_events.

Foundations of Intelligence Analysis Training (FIAT) Program
FIAT is intended for law enforcement and regulatory personnel who have not received formal or basic intelligence analysis training. The training offers an introduction to the history of intelligence analysis and teaches intelligence as a process (including the principles of critical thinking, creative thinking, and inference development). It also introduces participants to crime pattern analysis, association analysis, flow analysis, indicator development, products of intelligence, and reports and presentations.

Financial Investigations Practical Skills (FIPS) Training Program
FIPS provides hands-on training designed to address the particular interests and needs of white-collar crime investigators. Working as part of a multiagency task force, participants develop the practical skills, insights, and knowledge necessary to manage a successful financial investigation from start to finish, including identifying and addressing complex criminal activities, organizing and documenting critical evidence, and presenting a case for prosecution. This program will especially benefit investigators, auditors, prosecutors, paralegals, financial analysts, and regulatory personnel.

Financial Records Examination and Analysis (FREA) Training Program
Financial investigations are becoming more complex and are requiring more resources and skills to resolve. A thorough investigation of financial records is imperative to determine and document whether financial fraud is occurring. This course teaches investigators, analysts, examiners, auditors, prosecutors, and other legal professionals the latest techniques in records analysis. It develops the participants' computer skills related to examining and analyzing financial records, and presenting evidence in written reports, graphical depictions, and court testimony.

Basic Data Recovery and Analysis Program
In this computer-literate age, advances in computer technology have provided criminals with a powerful tool. Reported incidents of high-technology theft and computer-related crime are increasing dramatically; successful investigations and prosecutions will depend on investigators' computer skills. This class will introduce participants to the unique skills and methodologies necessary to investigate and prosecute computer crime. This course includes hands-on instruction and discussion about evidence identification and extraction, hardware and software needed to seize electronic evidence, how to recover erased files, and high-technology legal issues. This course will benefit criminal investigators, prosecutors, or support staff technicians involved with high-technology crimes and the seizure of electronic evidence.

Task Force Activities

Narcotics Task Force Workshop (Center for Task Force Training)
This training is designed for multijurisdictional narcotics task force commanders and supervisory personnel, and provides training in multiagency narcotics enforcement operations. It focuses on multiagency response training needs specific to the investigation and prosecution of narcotics trafficking conspiracies. It also provides valuable training for new and experienced managers, supervisors, and senior investigators seeking advancement. Instruction includes practical exercises covering both the administrative and operational aspects of narcotics task force enforcement. For more information, visit www.iir.com/centf.

Methamphetamine Investigation Management Workshop (Center for Task Force Training)
This 3-day training workshop addresses the operational aspects of managing methamphetamine investigations. The covert nature of drug laboratories and the hazardous chemicals involved in methamphetamine drug operations pose unique challenges for law enforcement managers and investigators. This workshop provides an overview of the methamphetamine problem and methods of manufacturing the drug. Instruction includes identification of a clandestine laboratory and strategies to manage methamphetamine investigations, plan raids, and ensure effective and safe outcomes. For more information, visit www.iir.com/centf.

Terrorism Awareness, Prevention, and Response

State and Local Anti-Terrorism Training (SLATT) Program
SLATT provides specialized training for law enforcement personnel in combating terrorism and extremist criminal activity. To ensure that SLATT always delivers the most up-to-date information, the program constantly researches and reviews terrorism-related topics, and offers timely information regarding preincident preparation, investigation, prevention, and interdiction. This type of training fulfills a different need than that met by first responder and other related weapons of mass destruction (nuclear, biological, and chemical) response training. For more information, visit www.iir.com/slatt.

.