

The below listed courses are currently offered at the National Computer Forensics Institute (NCFI) from October, 2022 through January, 2023. The courses are divided into four categories: **First Responder Courses**, **Basic Examiner Courses**, **Advanced Examiner Courses**, and **Prosecutor/Judge Courses**. **The nomination period for all courses ends on Wednesday, June 22, 2022.** Please contact me should you wish to nominate an employee for any of the below course. These costs of attending in-person courses are paid for by the Secret Service.

First Responder Courses - These courses are designed for individuals who have a basic working knowledge of computers and computer investigations, but have no previous training to conduct digital forensic exams.

Business Email Compromise (BEC-V)

A 1-day virtual course designed to provide cyber investigators an overview into BEC attacks. Students will learn the basics of how a BEC attack is conducted, common attackers, and where common locations of attacker attribution evidence reside. This course will also explain legal processes available to further BEC investigations.

BEC-V 23-01V(Virtual)

Date: November 8, 2022

This class is limited to 45 students.

Basic Network Investigation Training (BNIT)

A 5-day course centered on basic network investigative techniques and network incident mitigation methods. First responders/investigators gain hands-on experience with computer networking fundamentals, legal issues, and digital evidence search and seizure procedures.

BNIT 23-01

Date: November 7-11, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 6, 2022 and return on Friday, November 11, 2022.

BNIT 23-02

Date: November 28-December 2, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 27, 2022 and return on Friday, December 2, 2022.

Ransomware Response Case Study

A case study of a network intrusion investigation conducted by NCFI alumnus Neil Uhrig. This two hour virtual presentation is intended for all law enforcement, both sworn and non-sworn personnel, regardless of level of knowledge of computers and computer investigations. Students will leave with key take-aways from a critical attack and simple steps a first responder will take when responding to a ransomware incident.

Case Study 23-01(Virtual)

Date: October 12, 2022

This class is limited to 200 students.

Digital Currency Course (DCC)

DCC is a 5-day course which provides law enforcement investigators basic knowledge regarding digital currencies used in criminal activity. Students will learn the fundamentals of blockchains, transactional tracing, and seizure of digital assets. Students will be exposed to current and future trends as well as the numerous challenges faced by law enforcement in this rapidly evolving field.

DCC 23-01

Date: November 28-December 2, 2022

This class is limited to 36 students. Travel to the NCFI on Sunday, November 27, 2022 and return on Friday, December 2, 2022.

DCC 23-02

Date: January 9-13, 2023

This class is limited to 36 students. Travel to the NCFI on Sunday, January 8, 2023 and return on Friday, January 13, 2023.

Digital Evidence Investigations (DEI)

A 5-day course, which provides first responders/investigators a working knowledge in the identification, extrapolation and analysis of digital evidence obtained from computers and other electronic devices: cellphones, GPS units, and tablets; as well as hands-on training with forensic analysis tools, legal issues, and report generation techniques.

DEI 23-01

Date: October 10-14, 2022

This class is limited to 35 students. Travel to the NCFI on Sunday, October 9, 2022 and return on Saturday, October 15, 2022.

DEI 23-02

Date: December 12-16, 2022

This class is limited to 35 students. Travel to the NCFI on Sunday, December 11, 2022 and return on Saturday, December 17, 2022.

Digital Investigations Supervisors Course (DISC)

A 3-day course designed for individuals who manage digital forensic labs or analysts. Students will gain knowledge as to what is involved in the technical world of a digital forensics analyst job, and how to efficiently manage workforce and case work flow in a digital forensics lab. Students will gain hands-on experience with lab management software, legal issues, and digital evidence management.

DISC 23-01

Date: December 6-8, 2022

This class is limited to 35 students. Travel to the NCFI on Monday, December 5, 2022 and return on Friday, December 9, 2022.

DISC 23-02

Date: January 24-26, 2023

This class is limited to 35 students. Travel to the NCFI on Monday, January 23, 2023 and return on Friday, January 27, 2023.

Drone Operations Course (DOC)

DOC is a 4-day course for forensic examiners and aspiring drone pilots, with focus on investigations and operations of small Unmanned Aerial Systems (sUAS). Students learn proper identification, operation regulations, criminal use and seizure of sUAS. At the conclusion of the course students will possess the resources and foundation of knowledge to begin the process of obtaining their FAA Drone Pilot Certification.

DOC 23-01

Date: December 5-9, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, December 4, 2022 and return on Friday, December 9, 2022.

Filesystem Recognition Electronic Sterilization and Hashing (FRESH)

A 1-day virtual course into the most common file systems, their structures, and some of their available artifacts. Students will be introduced to binary and hexadecimal numbering systems which are the foundation to file systems and digital forensics. This course also explains the tenants of electronic sterilization of storage media used for collecting digital evidence, as well as the best practices of conducting hash verification in digital forensics.

FRESH 23-01 V(Virtual)

Date: November 15, 2022

This class is limited to 45 students.

FRESH 23-02(Virtual)

Date: January 31, 2023

This class is limited to 45 students.

Report Authors Course (RAC)

A 3-day course designed for students who write digital forensic reports. Students will gain knowledge as to what is involved in writing factual, grammatically correct, and technically sound digital forensics examination reports which will be used as a basis for legal process and courtroom testimony. Students will gain hands on experience through authoring digital forensics reports, addressing legal issues, and providing common and easily understood explanations of their technical writings.

RAC 23-01

Date: October 18-20, 2022

This class is limited to 70 students. Travel to the NCFI on Monday, October 17, 2022 and return on Friday, October 21, 2022.

Ransomware Investigative Principles (RIP)

A 1-day virtual course, addressing the basic response, identification and mitigation of ransomware inside a business or municipal environment. Students will be introduced to ransomware attack vectors, foundational material as it relates to ransomware movement and ransomware artifact collection.

RIP 23-01V(Virtual)

Date: November 10, 2022

This class is limited to 45 students.

RIP 23-02(Virtual)

Date: January 19, 2023

This class is limited to 45 students.

Basic Examiner Courses - These courses are designed for individuals who are newly assigned to conduct digital forensic exams or network intrusion investigations, and have a basic working knowledge of computers and computer investigations.

Basic Computer Evidence Recovery Training (BCERT)

A 5-week course, which provides law enforcement investigators real-world experience with computer hardware, device imaging solutions, forensic analysis tools, legal issues, and report generation techniques. Graduates return home with issued equipment necessary to perform forensic examinations.

BCERT 23-01

Date: January 2-February 3, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 1, 2023 and return on Friday, February 3, 2023.

Command Line Principles (CLP)

A 5-day course designed to introduce students to the command line interfaces available via the Windows operating system. Students will learn to create files and directories, copy items, format drives, capture memory, locate and acquire volatile system data, and perform a forensic image from a command line interface. Ultimately, students will use the knowledge acquired throughout the week to create scripts that automate the collection of data in furtherance of their investigation. Students do not need to have experience working within the command line interface environment, as the course is designed to start from an introductory level and build knowledge throughout the week.

CLP 23-01

Date: October 10-14, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, October 9, 2022 and return on Friday, October 14, 2022.

QBOT Backdoor Trojan (Case Study:QBOT)

This 2 hour case study will discuss a QBOT analysis from start to finish. The case study will cover how the incident was scoped, the data collection process and the data analysis techniques there were utilized. The analysis techniques will also describe how memory analysis was used to isolate the infected endpoint and locate the saved malicious binaries. Participants will receive firsthand understanding how an adversary attempts to hide and slow down the analysis process through code obfuscation and binary packing.

Case Study:QBOT 23-01(Virtual)

Date: October 19, 2022

This class is limited to 100 students.

Drone Analysis and Forensics (DAF)

DAF is a 4-day course for forensic examiners to learn proper seizure, data collection and forensic analysis of small Unmanned Aerial Systems (sUAS). Students will learn the types of data recorded during the operation and flights of sUAS related to criminal investigations and how to process, analyze and report on their findings.

DAF 23-01

Date: January 16-20, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 15, 2023 and return on Friday, January 20, 2023.

Device Triage Workshop (DTW)

This 4-hour workshop will cover identification and expanded categorization of digital devices. Based on that categorization, how to then triage those devices to determine if electronic data is recoverable and the best process for extraction. Example devices will be utilized and case studies will be discussed in order to show the attendees what can be accomplished with a significantly damaged digital device.

DTW 23-01(Virtual)

Date: December 7, 2022

This class is limited to 70 students.

Digital Video Recorders (DVR)

A 5-day course designed for examiners/investigators to learn methodologies and techniques used to recover and analyze video evidence from Digital Videos Recorders and other sources. Students will develop knowledge of digital video data structures, how digital video is created, proper playback, creating demonstrative exhibits and reporting of findings.

DVR 23-01

Date: January 30-February 3, 2023

This class is limited to 36 students. Travel to the NCFI on Sunday, January 29, 2023 and return on Friday, February 3, 2023.

Introduction to Phone Repair (IPR)

IPR is a 5-day course, focused on diagnosing and repairing common mobile device issues which have rendered the device non-operational and subsequently impeded evidence recovery. Through classroom instruction, and hands on practical exercises, students will learn techniques to diagnose, remedy, and repair these issues. Additionally, students will learn basic electrical theory and soldering skills in furtherance of the aforementioned objectives. Students will leave this course equipped with the tools and knowledge to replace mobile device screens and batteries, direct boot a mobile device to a logic board via an external power supply, repair/replace a mobile device data/charging port, and clean/transfer a logic board to a donor mobile device.

IPR 23-01

Date: January 23-27, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 22, 2023 and return on Friday, January 27, 2023.

Linux for Law Enforcement (LLE)

A 5-day course which offers insight on Linux based distributions, how to identify, recover, and forensically report on file systems and their relevant artifacts. The course will also provide current case studies and law enforcement cyber investigative techniques in identifying and replicating portable boot OS media consistently seen during anti-forensic criminal tactics, and how to effectively report suspect attribution with various forensic tools and software.

LLE 23-01

Date: October 17-21, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, October 16, 2022 and return on Friday, October 21, 2022.

Mobile Device Examiner (MDE)

A 3-week course, in which law enforcement personnel learn investigative methodologies and techniques in digital evidence extrapolation and analysis of mobile devices. Graduates return home with issued equipment necessary to perform forensic examinations.

MDE 23-01

Date: January 2-20, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 1, 2023 and return on Friday, January 20, 2023.

MDE 23-02

Date: January 23-February 10, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 22, 2023 and return on Friday, February 10, 2023.

Network Intrusion Response Program (NITRO)

A 3-week intermediate course designed to train investigators on effective methods in the identification and collection of volatile data in response to network-based crime. Graduates return home with issued equipment to respond to network intrusions.

NITRO 23-01

Date: January 2-20, 2023

This class is limited to 36 students. Travel to the NCFI on Sunday, January 1, 2023 and return on Friday, January 20, 2023.

Vehicle Forensics Course (VFC)

A 5-day course for experienced digital forensics examiners in both computers and mobile devices. Through classroom instruction and hands-on experience, students learn to extract and analyze data from a vehicle's telematics and infotainment system. Graduates return home with issued equipment necessary to perform forensic examinations.

VFC 23-01

Date: January 30-February 3, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 29, 2023 and return on Friday, February 3, 2023.

Advanced Examiner Courses - These courses are designed for individuals who conduct digital forensic exams or network intrusion investigations, and have a solid understanding of digital forensics.

Advanced Forensics Training (AFT)

A 2-week course for experienced forensic examiners focused on advanced digital forensic data recovery.

AFT 23-01

Date: November 7-18, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 6, 2022 and return on Friday, November 18, 2022.

Advanced Mobile Device Examiner (AMDE)

A 5 day course, in which investigators gain experience with mobile devices such as cell phones, GPS units, and tablets, as well as forensics analysis tools, legal issues, and report generation for law enforcement. The course combines instructor-led discussions and practical exercise that teach advanced methodologies and techniques used during investigations, which involve digital evidence obtained from mobile devices.

AMDE 23-01

Date: November 28-December 2, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 27, 2022 and return on Friday, December 2, 2022.

Forensic Scripting Course (FSC)

A 5-day course for advanced examiners, focused on computer scripting through a combination of lecture, instructor-led demonstrations, and practical exercises. Students learn Python scripting used in the recovery of digital evidence, and report writing techniques for criminal investigations.

FSC 23-01

Date: December 12-16, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, December 11, 2022 and return on Friday, December 16, 2022.

FSC 23-02

Date: January 23-27, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 22, 2023 and return on Friday, January 27, 2023.

Mac Forensics Training (MFT)

A 2-week course for experienced examiners, focused on investigative tools and techniques utilized in digital evidence recovery in a Mac environment.

MFT 23-01

Date: November 7-18, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 6, 2022 and return on Friday, November 18, 2022.

Prosecutor/Judge Courses - These courses are designed for Prosecutors and Judges to effectively prosecute and preside over cases involving digital forensic evidence.

Advanced Digital Evidence for Prosecutors (ADEP)

A 5-day course, which offers prosecutors an advanced look into criminal investigations that encompass digital evidence analytics, encryption, electronic communications, and social and cellular networks.

ADEP 23-01

Date: January 23-27, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 22, 2023 and return on Friday, January 27, 2023.

Digital Evidence for Judges (DEJ)

A 5-day course that provides judicial officials understanding and insight regarding criminal investigations which contain digital evidence from computers, mobile devices, virtual storage networks, and other sources.

DEJ 23-01

Date: November 14-18, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, November 13, 2022 and return on Friday, November 18, 2022.

DEJ 23-02

Date: January 9-13, 2023

This class is limited to 25 students. Travel to the NCFI on Sunday, January 8, 2023 and return on Friday, January 13, 2023.

Digital Evidence for Prosecutors (DEP)

techniques utilized in cybercrime investigations, and how to effectively present before the court digital evidence gathered from computers, mobile devices, virtual storage networks, and other sources.

DEP 23-01

Date: October 17-21, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, October 16, 2022 and return on Friday, October 21, 2022.

DEP 23-02

Date: December 5-9, 2022

This class is limited to 25 students. Travel to the NCFI on Sunday, December 4, 2022 and return on Friday, December 9, 2022.

Prosecutor/Judge Courses

These courses are designed for state and local court officials who prosecute and preside over criminal cases, which involve digital forensics evidence.

NOTE: Please direct all prosecutor and judicial officials to the below links to complete application for consideration to attend the courses offered below. **The nomination period will end on Wednesday, June 22, 2022.**

Judge Link:

<https://forms.office.com/r/iCy8tDcYNT>

DEP Link:

<https://forms.office.com/r/D5C3cnwgzG>

ADEP Link:

<https://forms.office.com/r/RnzjE41JZL>