Hi-Tech Investigations, LLC.

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Mobile Phone Investigations & Cellular Record Analysis

Three day hands-on course on analyzing cell phone extraction data using Cellebrite/Axiom. Students will learn about cellular network technology and how to obtain and analyze cellular records using various forensic mapping tools. Tower Dumps & Area Searches will be discussed.

August 9-11, 2027

Franklin County Public Safety Training Center

Chambersburg, Pennsylvania 17202

HI-TECH INVESTIGATIONS HTI TRAINING

$650.00

www.hi-techinvestigations.com

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Mobile Phone Investigations & Cellular Record Analysis (3 days)

Law Enforcement Officers will first learn about the proper way to seize, preserve, and analyze Mobile Phones. Mobile Forensic Tools such as Graykey, Cellebrite, and Axiom will be discussed. Students will be instructed on data that is stored on Apple and Android devices and how to use Cellebrite and Magnet to review phone extraction data. Students will be introduced to Cellular Network Technology and how Cell Site Location Information obtained from Cellular providers can be used in Criminal Investigations to locate a device historically and during live tracking. Tower dumps and area dumps will be discussed along with Cellular Network Analysis Drive Testing. This course will be a hands-on class where students will work with a forensic mapping tool to analyze geolocation data. **Students will need a laptop with internet capability and Google Earth Pro for Desktop installed on their laptop. Bring a mouse to use with the laptop.**

Day 1

8-8:30	Registration
8:30-9:30	Seizing cell phones
9:30-10:00	Introduction to Phone Forensics (Cellebrite, Graykey, etc)
10:00-10:45	Data stored on Apple devices and Android devices
10:45-11:30	Apple iCloud & 3rd Party Geolocation Tracking
11:30-12:30	Lunch (On your own)
12:30-2:00	Hands-on practical using Cellebrite Reader
2:00-4:00	Hands-on practical using Magnet Axiom Portable Case

Day 2

8:00-10:30	Introduction to Cellular Networks
10:30-11:00	Mobile Network Operators and Mobile Virtual Network Operators
10:30-11:15	Obtaining Provider records with Search Warrants
11:15-12:00	Analyzing Cellular Records
12:00-1:00	Lunch (On your own)
1:00-2:00	Paid Phone Lookup Tools
2:00-4:00	Forensic Mapping of Cellular Records Hands-on practical

Day 3

8:00-9:00	Specialized Location records/Best Practices
9:00-10:00	Cell Tower Dumps/Area searches/Drive Testing/Fugitive Tracking
10:00-12:00	Forensic Mapping of Verizon RTT hands-on practical
12:00-1:00	Lunch (On your own)
1:00-1:30	Using LPR data and video surveillance in Geolocation Analysis.
1:30-2:00	Motor Vehicle Digital Evidence
2:00-4:00	Forensic Mapping of Timing Advance hands-on practical

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Upon Completion:
Participants will be able to seize and handle cell phones properly to allow for the best evidence to be extracted using forensic tools. Participants will be introduced to different methods and tools to extract data from cell phones along with knowing the most efficient techniques to analyze phone records using Cellebrite. Participants will have a better understanding of how cell phones collect and store data and how cellular networks operate. Participants will know how to identify and obtain cellular records and how to forensically map the records to identify historical locations of the phone. Participants will understand the device location information that iOS devices store along with data that Google stores in their own servers which can be obtained with a court order. Participants will learn the best way to leverage Google Device Locations using Geofence Warrants which can be used in current and Cold Case Investigations.

Instructor Biography:
Jeff German is a Detective with the City of Joliet, Illinois Police Department. Detective German has over 20 years' experience as a Police Officer and over 10 years' experience as a Detective and an Investigator for the Will/Grundy Major Crimes Task Force. Detective German is a subject matter expert in Cellular Record & Geolocation Analysis, Certified Forensic Mobile Examiner, Certified Forensic Video Technician, Certified Vehicle System Forensic Technician & Examiner, Fire Investigator, Lead Homicide Investigator, and Certified Evidence Repair Technician.