Ordinance No. _____   Introduced November 6,2024

AN ORDINANCE OF THE COUNCIL OF THE CITY OF WHEELING
WV AUTHORIZING THE CITY MANAGER TO ALLOCATE A
PORTION OF THE WV OPIOID SETTLEMENT FUNDS TO ASSIST
THE WHEELING POLICE DEPARTMENT IN PROVIDING OPIOID
RELATED ABATEMENT

Section 1. The City of Wheeling, WV is a participating local government in various opioid-related

claims which were submitted to the jurisdiction of a panel overseeing the mass litigation proceeding

captioned *In Re. (Opioid Litigation, Civil Action No. 21-C-9000 (W.Va. Cir.Ct. Kanawha County)*

Section 2. The City of Wheeling, WV was apportioned a share of the WV MLP Opioid Settlement

Funds.

Section 3. The Legal Department of the City of Wheeling, WV believes the uses proposed by its Police

Department are within the criteria as outlined in the Memorandum of Understanding controlling the

agreed use of the opioid settlement funds. *See:* The Legal Department Memorandum attached and

incorporated herein.

Section 4. The City of Wheeling Police Department has provided the purpose, background and associated

costs for the proposed opioid abatement expenditures of Forty Thousand Dollars ($40,000.00) *See*: The

Police Department's supporting documentation attached and incorporated herein. Such expenditures are

to ensure appropriate resources for law enforcement to engage in enforcement and possess adequate

equipment, tools and manpower to address the complexity of the opioid problem. *See generally:*

Approved uses Opioid Settlement Funds-Exhibit A to West Virginia First Memorandum of

Understanding; Schedule A- Core Strategies & Schedule B-Approved Uses. Specific Portions of which

are included in the City Legal Department's Memorandum attached and incorporated herein.

By the Administration

CITY OF WHEELING

OFFICE OF THE CITY MANAGER
CITY COUNTY BUILDING
1500 CHAPLINE STREET
WHEELING, WEST VIRGINIA 26003
304-234-3617

MEMORANDUM

TO: Robert Herron

FROM: Rosemary Humway-Warmuth

DATE: October 31, 2024

RE: Allocation of portions of the WV Opioid Settlement Funds to assist
                the Wheeling Police Department in providing Opioid Related Abatement.

The City of Wheeling, WV is a participating local government in various opioid-related claims which were submitted to the jurisdiction of a panel overseeing the mass litigation proceeding captioned *In Re: Opioid Litigation, Civil Action No. 21-C-9000 (W.Va. Cir.Ct. Kanawha County.* The City of Wheeling, WV was apportioned a share of the WV MLP Opioid Settlement Funds. The Legal Department of the City of Wheeling, WV believes the uses proposed by its Police Department are within the criteria as outlined in the Memorandum of Understanding controlling the agreed use of the opioid settlement funds.

The City of Wheeling Police Department has provided the purpose, background and associated costs for the proposed opioid abatement expenditures. Such expenditures are to ensure appropriate resources for law enforcement to engage in enforcement and possess adequate equipment, tools and manpower to address the complexity of the opioid problem. (see generally Approved uses Opioid Settlement Funds-Exhibit A to West Virginia First Memorandum of Understanding; Schedule A- Core Strategies & Schedule B-Approved Uses. Specific Portions of which are included this City of Wheeling, WV Legal Department's Memorandum attached and incorporated herein.

The proposed uses by the Police Department are generally covered in Schedule B-Approved Uses-Section M LAW ENFORCEMNET which reads as follows:

M.   LAW ENFORCEMENT

        Ensure appropriate resources for law enforcement to engage in enforcement and possess adequate equipment, tools, and manpower to address complexity of the opioid problem.

However, there are other sections as attached which may/do apply to the proposed uses of the Department.

        Should there be any questions, comments or concerns please do not hesitate to contact the Legal Department.

APPROVED USES

OPIOID SETTLEMENT FUNDS

Exhibit A to West Virginia First Memorandum of Understanding
Schedule A – Core Strategies
Schedule B – Approved Uses

EXHIBIT A

SCHEDULE A - CORE STRATEGIES

The Parties shall choose from among the abatement strategies listed in Schedule B. However, priority shall be given to the following core abatement strategies ("Core Strategies). [1]

A. <u>NALOXONE OR OTHER FDA-APPROVED DRUG TO REVERSE OPIOID OVERDOSES</u>

1. Expand training for first responders...

B. <u>MEDICATION-ASSISTED TREATMENT ("MAT") DISTRIBUTION AND OTHER OPIOID-RELATED TREATMENT</u>

3. Provide MAT education and awareness training to healthcare providers, EMTs, law enforcement, and other first responders

I. LAW ENFORCEMENT

1. Funding for law enforcement efforts to curtail the sale, distribution, promotion or use of opioids and other drugs to reduce the oversupply of licit and illicit opioids, including regional jail fees.

J.   RESEARCH

Research to ameliorate the opioid epidemic and to identify new tools to reduce and address opioid addiction... Ensure tools exist to provide law enforcement with appropriate enforcement to address needs.

SCHEDULE B - APPROVED USES

A.   TREAT OPIOID USE DISORDER (OUD)

1. Training on MAT, first responders...

C.   CONNECT PEOPLE WHO NEED HELP TO THE HELP THEY NEED
        (CONNECTIONS TO CARE)

9.   Support the work of Emergency Medical Systems, including peer support specialists, to connect individuals to treatment or other appropriate services following an opioid overdose or other opioid-related adverse event.

D.   ADDRESS THE NEEDS OF CRIMINAL-JUSTICE-INVOLVED PERSONS

   b.   Active outreach strategies such as the Drug Abuse Response Team (DART) model;

   6.   Support critical time interventions (CTI), particularly for individuals living with dual-diagnosis OUD/serious mental illness, and services for individuals who face immediate risks and service needs and risks upon release from correctional settings.

H.PREVENT OVERDOSE DEATHS AND OTHER OPIOID-RELATED INJURIES

   Support efforts to prevent or reduce overdose deaths or other opioid-related injuries through evidence-based or evidence-informed programs or strategies that may include, but are not limited to, the following:

1.   Increase availability and distribution of naloxone and other drugs that treat overdoses for first responders, overdose patients, individuals with OUD...

3.   Training and education regarding naloxone and other drugs that treat overdoses for first responders...

10.   Support mobile units that offer or provide referrals to treatment, recovery supports, health care, or other appropriate services to persons that use opioids or persons with OUD and any co-occurring SUD/MH conditions.

I.   FIRST RESPONDERS

   In addition to items in Section C, D and H relating to first responders, support the following:

   1.   Educate law enforcement or other first responders regarding appropriate practices and precautions when dealing with fentanyl or other drugs.

1. Statewide, regional, local or community regional planning to identify root causes of addiction and overdose, goals for reducing negative outcomes related to the opioid epidemic, and areas and populations with the greatest needs for treatment intervention services, and to support training and technical assistance and other strategies to abate the opioid epidemic described in this opioid abatement strategy list.

2. Invest in infrastructure or staffing at government, law enforcement, or not-for-profit agencies to support collaborative, cross-system coordination with the purpose of reducing the oversupply of opioids, preventing overprescribing, opioid misuse, or opioid overdoses, treating those with OUD and any co-occurring SUD/MH conditions, supporting them in treatment or recovery, connecting them to care, or implementing other strategies to abate the opioid epidemic described in this opioid abatement strategy list.

3. Provide resources to staff government oversight and management of opioid abatement programs.

K. TRAINING

1. Provide funding for staff training, services to improve the capability of government, law enforcement, entities to abate the opioid crisis.

2. Support infrastructure cross system coordination to prevent misuse, prevent overdoses, and treat those

M. LAW ENFORCEMENT

Ensure appropriate resources for law enforcement to engage in enforcement and possess adequate equipment, tools, and manpower to address complexity of the opioid problem.

Wheeling Police Department
Investigations Division
2115 Chapline Street
Wheeling, WV 26003
Phone: (304) 234-3781
Fax: (304) 234-3885
wheelingwv.gov

MEMORANDUM

TO : Chief Schwertfeger *[signature]* 10/14/24

FROM : Investigations

DATE : 10/8/2024

RE : Opioid Funds Remaining Balance and Interest

One of biggest causes of criminal activity in the City of Wheeling is drug activity, or crimes to support a drug addiction. Officers who investigate cases involving drug trafficking often time utilize evidence that is obtained from cell phones. This evidence contained on cell phones includes conversations, images, and money transactions. Often times the conversations that are obtained through cell phone extractions is critical, if not the most important piece of evidence to convict a drug dealer. In addition to convicting drug dealers, evidence that is obtained from cell phone extractions can be used to identify individuals who are suppliers, other dealers, or involved in other related crimes.

Another drug related investigations that Wheeling Police officers are called on to investigate are overdoses and overdose deaths. Wheeling has many citizens that are struggling with substance use disorder, that often times leads to them overdosing; and in some cases, die from overdosing. If officers are able to obtain the victim's cell phone, it will often times be the only piece of evidence to determine who the person was who sold them the drugs.

Currently officers who have cell phones for drug cases that need to be analyzed have to send them to the WV Fusion Center or the WVSP Digital Forensics laboratory. This process takes several months before officers get the cell phone and the evidence obtained from the phone. This hinders investigations because any information pertaining to other dealers or suppliers is old, and officers may not be able to act on it. In overdose death cases, it is critical to get as much information as quickly as possible in order to successfully identify, investigate, and apprehend the individual responsible to delivering the drugs that caused the victim's death.

If the Wheeling Police department were to have a Celebrite machine, the process of extracting evidence from cell phones would go from several months to several hours or days. The Celebrite software/equipment is top of the line and gathers the most information from cell phones. It is important to gather as much digital evidence as possible, including deleted data, when investigating drug related crimes. In addition to text messages, digital evidence includes web browser history, applications that are on the cell phone, emails, thumb nail images, and

stored username/passwords. This information can lead to other sources of evidence, and Celebrite is the best at capturing this evidence.

The equipment cost to purchase the software/equipment would be $9000, which is a yearly subscription. In addition to this cost, Celebrite offers training on the software/equipment which is approx.. $5000 per class and requires two classes; making the total for training approx.. $10,000.

The equipment also requires a computer/laptop with specific specifications to run/use the software/equipment. The specification includes a recommended 64gb memory and 500gb storage. The cost to purchase that laptop/computer would be approx.. $4,000.

In closing, I propose that the remaining funds and interest that was allotted to the City of Wheeling to fight the opioid crisis be used to purchase 3 years subscription to the Celebrite software/equipment for a total of $27000, training on the equipment/software for $10000, and a laptop/computer to run/use the software/equipment for $3,000. The total amount of funds required for the purchase is $40,000.

Operating System	Microsoft Windows 11, 64-bit
	Microsoft Windows 10, 64-bit
Memory (Ram)	Minimum: 16 GB
	Recommended: 32 GB
	Triage:
	Minimum: 32 GB
	Recommended: 64 GB
Internal storage requirement	10 GB of free disk space for installation
	Triage:
	Minimum: 100 GB
	Recommended: 500 GB
Network	Minimum: 15MB/s
	Recommended: 100MB
External ports	443
Internal ports	One port is required from each of the following ranges:35100-35500, 55100-55500, 2001-2010,20100-20900, 15002-15011
	Triage: One port is required from the following range: 5000-5010

- Extraction and Analyzing
- Exploit solutions and locked devices (due to heavily secured IOS and Android)
- Digital Data management, long term storage and efficient compliance tracking.

I look forward to our conversation, your questions and getting you all up and running.

To illustrate the importance of Cellebrite's newest initiative, please see the below justification:

UFED's previous capabilities included:

- Physical Extraction, which will allow you to extract all your devices.
- Physical Analyzer, which is your tool to analyze and parse through all of the code you've just extracted from a device.

The UFED only has a certain level of extractions/cannot handle locked devices due to new security measures taken by device providers. You used to be able to get a Physical(100% of evidence) and Full File System (90-100%) with a UFED. Unfortunately, any phone post 2017 is going to now have File Based Encryptions rather than the previous Chip based. Instead of the phone itself having one set of encryption like it did in chip based; now each file, photo and txt message has its own separate decryption key. So UFED is still vital and can get you quick extractions like Logical(10-15%), Advanced Logical(20-30%) and on rare occasion of an older phone a File System(40-45%). Even more important your Physical Analyzer is the most widespread digital Forensics tool used in the world.

The power of FFS (iPhone 14 example)	UFED Logical (Unlocked)	Ins · ts Full File System
Extraction Size	1.48 GB	25 GB
SMS/MMS	73	88
Call Logs	62	85 (35)
Contacts	284	298
Web History	32	1,661 (28)
Emails	1	73
Chats	305	513
Locations	206	372
Images	6,193	51,092
Videos	21	1,027

What will you gain by switching to *Inseyets*?:

- Unlocking Capability (Cellebrite is consistently leading in IOS support and always leading in Android)
- Secure Container Extractions (The only tool on the market to efficiently access the "hidden" folders on Android devices)
- Full File System Level Extractions (90-100% of the evidence data set)
- Nearly all consent-based devices will now be able to get Full File System plus Secured container extractions; even in the absence of an unlock package.
  - Begin extractions promptly in the field, Cellebrite Inseyets is non geo locked.
- Super Sonic Brute Force which is the fastest Brute Force solution on the market, turning over the greatest volume of passwords at a time. (More info below)

- Quicker and more in-depth extractions leading to more locations services (which are wiped from the device within 7 days).

To summarize, because of the new level of encryption Vendors have placed on devices, **_Inseyets_** is the best solution that will allow you to get a Full File System level extraction from the devices you're seeing. Full File System level extractions are the deepest level that will allow you to extract all the third party app databases. Physical Analyzer is where you will begin to decode extracted data into a human readable format in order to begin your investigation.

As an officer you wouldn't walk into a house where you found 10 guns and then leave with only 4, let alone wait months for someone else to do it for you. With that same thought put to reference concerning digital forensics. If you seize a phone, why would it not be prioritized to pick up every piece of evidence on that device, in house? Especially when it pertains to data that is time sensitive such as location services which recycles off a device after 7 days.

Finally, what makes **_Inseyets_** different from the previous UFED combined with Premium? **_Inseyets_** will have the following tool set integrated:

-Cloud Analyzer:
Collect, preserve and analyze public plus private domain, social media data, instant messaging, file storage, web pages and other cloud-based content. In addition, view if any crypto artifacts were found in any given extraction. A mobile device acts as a middle man to the cloud, where some data does not live on the device. Cloud analyzer lets you leverage the authentication token to pull down that additional data… even without login credentials.

-Commander:
Commander is a server-based solutions that gives you the ability to easily track your licenses, settings/versions across your Cellebrite portfolio and easily provide in depth reports on extractions that were conducted. By whom, by where, how many and what type.

-Quick Insights
As you begin the process of accessing the device, preliminary information can be obtained from a device before an extraction is even finished that can give you information like device owner, emails, installed apps/app details telephone number and potential passcodes. This can let you quickly determine if a device is still worthy of an extraction. All in effort to trim/reduce the number of devices that require a full extraction/exam. That same information can get you started in additional avenues of investigations. Such as preservation orders or search warrants to cloud and or vendor providers.

-Triage:
Granting the ability to create and proactively search for (customizable) profiles before needing to fully extract a device. This ability is invaluable when a bulk of devices have been seized. Rather than wasting the machine and man hours extracting each device the Triage workflow can save countless hours in vetting the need/priority of a device's need for extraction. Using triage and quick insights is the optimal way to reduce the number of devices needed for extraction, drastically increasing an agencies time to evidence.

Automation:
The larger the extraction the more time to evidence. The waiting for the next user interaction and the next click creates lots of deadtime. With Inseyets Streamline Automation there is no

need for "the next click", you can queue up automatic decoding and even automatic UFDR report generation.

Think of having to extracting a phone that's 300GB in size and then waiting for that to process... with Inseyets you can "set it an forget it". Let it run while you are not working and have it ready when you return.

- **Cellebrite's Competitive Differences to other Vendors:**

1.   **Supersonic Brute Force** – Supersonic Brute Force allows users to reach approximately 6,000 unlock attempts per day. In contrast, the historical Brute Force exploit capability is roughly 100-250 unlocks per day for all vendors. Cellebrite's *Inseyets* drastically improves time to evidence vs. others. GrayKey brute force support is limited to iOS 16.

2.   **Latest iOS** – Inseyets was the first tool capable of unlocking iOS 17 and held that position for more than 8 months until a recent update where they only matched our current support. Our compatibility matrix for devices on iOS is superior to other vendors as we already boast access to the latest iOS 16. Cellebrite continues to emphasize R&D into this vital step in the investigation and prioritizes being first to the market the moment a new release of iOS or Android is available. We continue to support the latest versions of IOS 17.

3.   **Android Support** – We support the chipset for Android rather than vendor models which no other vendor comes close to our current support matrix because of this. Out of your 250 phones a year, if only 20 of them are Android you will still be forced to outsource those devices while possibly leaving behind the separately encrypted secure folders.

4.   **Geolocation Limitation** – Most unlocking vendors have geolocation restrictions on where their software is allowed to operate. With *Inseyets*, your UFED turns into an unlocking remote endpoint. Investigators now have the option to take *Inseyets* into the field, other jurisdictions, etc. to perform critical unlocking actions. Once again, this highlights the improvement of time to evidence vs. other vendors.

In summary, Cellebrite *Inseyets* brings the extraction power of UFED and Premium with the decoding capabilities of Physical Analyzer and the added features of Cloud Analyzer, Triage, Quick Insights, Lab Automation.

The two biggest challenges for any given agency in today's digital age is a lack of manpower with a drastic increase in the volume of actionable digital evidence.

Cellebrite has created a <u>Force multiplier</u> with *Inseyets*. All in effort to assist investigators with managing the ever-growing need that these challenges present. That need being efficiently and effectively utilizing any and all digital evidence while maintaining a cohesive investigative process.

The year is 2024, it's time to simplify and leverage technology to assist investigators in solving these challenges and decreasing time to evidence while having an all in one, case to closure platform. We strive to decrease your time to evidence to increase your case closure and overall public safety.

I have also included the below justification to add onto the information within the KPI proposal:

- **Unlimited storage and unlimited shareability, internally or externally.**
  (Only measured by Examiner Portal users - base 2)

- **A Reader "Lite" Web Based Portal:**
  This gets Investigators to the meat and potatoes of any extraction with a small AI engine utilizing topic categorization and a simple 'all in one' view of the evidence. Making it possible for multiple Investigators to tag and reviewing evidence on one master copy, rather than wasting time doing so separately. This eliminates so many manual processes in their work flow such as flash drive load time, plus tagging and making copies of them for sharing and further investigation.

- **Eliminating Risk of Failing to Maintain Compliance:**
  Automatically tracks any and every piece of compliance easily tracked and generated into system logs. Keeping you void of the risk of misplacing or maybe worse, being accused and help responsible for misplacing evidence.

Just so you are aware, the reason to go with Cloud storage in AWS gov cloud via Guardian instead of on prem is twofold:

1. On prem storage does not automatically track compliance and movement of said evidence and that manual process will still need to be in your current workflow. With Guardian it is tracked automatically, taking that step out.

2. On-prem storage will need to be maintained and replaced along with not adding any efficiency or simplicity to the way this evidence is then shared, viewed and utilized on your internal CPUs. I know a lot of departments are having computers crash due to the size of these reports. Guardian makes it efficient to collaborate simultaneously on evidence, view it in a much simpler way and loads instantaneously.

One last thing, On-prem storage eventually fills up but Guardian is unlimited or with the core its 5TB.

Below is the pricing breakdown: (We suggest a 5% YOY growth for any license renewals)

Inseyets Base License: - $8,400
Inseyets HW: $1,700

Inseyets 15 Unlock Package: $6,000
Inseyets 40 Unlock Package: $12,500
Inseyets 65 Unlock Package: $19,000
Inseyets 100 Unlock Package: $25,500

Guardian: $24,800
Guardian Core: $4,200

Training: CCO, CCPA - $4,500 (per person)

My suggested start up package for you all, based off your current volume and workflow would be: (Package Discount, exp EOY 2024)

Inseyets Base License: - $8,400
Inseyets HW: $1,700 ($0, Free of Charge)

Inseyets 40 Unlock Package: $12,500 ($11,000)

Guardian: $24,800 ($22,800)

Training: CCO, CCPA - $4,500 (per person) x2

This would be a department wide solution and be able to give your investigators hours and hours of their time back to what they do best, investigating and solving crimes.

Remind them,

"If you want me to build a house that stands the test of time, you can't send me to the job site with just a screwdriver."

Looking forward to getting you all up and running. Thank you for your patience Detective, I look forward to finishing our project strong.

Respectfully,

Kaleb Rutledge | SLED, Mid-Atlantic Regional Manager
Tel. 571-463-7871 | e: Kaleb.Rutledge@cellebrite.com |
https://link.edgepilot.com/s/b6291474/N9t-GWfLKEGgJWBq3tVKQA?
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∴ **Cellebrite**   Digital intelligence
for a safer world

CELLEBRITE CERTIFIED OPERATOR (CCO)

Mobile Forensics

Course Description

Cellebrite Certified Operator (CCO) is a two (2) day intermediate level certification course designed to further develop mobile device handling and data extraction skills. This course reinforces forensically sound processes introduced in Cellebrite Mobile Forensic Fundamentals (CMFF), and guides participants through installing and configuring UFED Touch and UFED 4PC to conduct mobile device extractions. By completing practical hands-on exercises in the in-person course, participants will gain experience conducting Logical, File System, and Physical extractions, and creating shareable UFDR reports to streamline the investigative process. Participants will earn the CCO certification upon passing a knowledge test and practical skills assessment with a score of 80% or higher.

Level	Length	Certification Track	Delivery Mode
Intermediate	Two-Day (14 hours)	CCME and CCRS	In-Person Virtual Self-Paced* * last updated May 2023

Cellebrite
TRAINING

Course Learning Objectives

Upon successful completion of the course, the student will be able to:

- Describe pre-extraction considerations.

- Install and configure Touch, Touch 2, or 4PC and Physical Analyzer software.

- Explain the best practices for the on-scene identification, collection, packaging, transporting, examination, and storage of digital evidence data and devices.

- Display best practices when conducting cell phone extractions.

- Identify functions used within Touch, Touch 2, or 4PC to perform supported data extractions.

- Exhibit how to open extractions using Physical Analyzer.

- Summarize how to conduct basic searches using Cellebrite Physical Analyzer.

- Outline how to create a Triage report using Cellebrite Physical Analyzer.

- Demonstrate proficiency by completing a knowledge-based and practical skills assessment.

Note

No pre-requisites exist to attend the CCO class, which is the second of three requirements, to qualify for the Cellebrite Certified Mobile Examiner [CCME] certification exam.

The CCO course is NOT available as a test-out option for those individuals seeking to achieve CCME pre-requisites.

It is recommended that students in the CCO course have completed the Cellebrite Mobile Forensics Fundamentals [CMFF] course prior to this class.

Empowering Justice through Expert Digital Forensics Training

Cellebrite Training is a leading provider of digital forensics education, offering a comprehensive suite of courses designed to empower professionals in mastering the techniques, tools, and methodologies essential for navigating the complexities of digital investigations.

For a complete list of Cellebrite Training's in-person, virtual, or self-paced course offerings, please visit www.cellebrite.com/training or contact your regional Training Account Manager at Training@cellebrite.com or 800-942-3415. Select option #3.

Cellebrite
TRAINING

CELLEBRITE CERTIFIED PHYSICAL ANALYST (CCPA)

Mobile Forensics

Course Description

The Cellebrite Certified Physical Analyst (CCPA) course is a 3-day advanced level program designed for technically-savvy investigators, digital evidence analysts and forensic practitioners. As this course focuses on the analysis and advanced search techniques using Physical Analyzer, participants will not be conducting extractions from devices in this course. Physical Analyzer software will be used extensively to explore recovered deleted data, database contents, advanced search and analysis techniques, verification and validation, and reporting.

Level	Length	Certification Track	Delivery Mode
Advanced	Three-Day (21 hours)	CCME	In-Person Virtual Self-Paced*

* last updated July 2019

Cellebrite
TRAINING

Course Learning Objectives

Upon successful completion of the course, the student will be able to:

- Demonstrate proficiency in the digital forensic process by effectively conducting digital forensic examinations using Cellebrite's Physical Analyzer.

- Prepare comprehensive digital forensic reports.

- Differentiate between verification and validation techniques and apply them appropriately during the digital forensic process.

- Develop a comprehensive understanding of data validation best practices, including documenting validation processes and maintaining the chain of custody.

- Identify various smartphones and manufacturers, and employ forensic techniques to examine, identify, and verify smartphone hardware, software, and data.

- Install and configure Cellebrite Physical Analyzer, explore data extractions from mobile devices, and utilize its advanced settings.

- Explore and analyze the Android and Apple operating system and file system structures, as well as their value and complexities to investigators.

- Explore advanced forensic examination tools and topics such as SQLite databases, flash memory characteristics, data carving techniques, and byte-level data searches.

Note

This course is part of the Cellebrite Certified Mobile Examiner (CCME) track. The full track requires the completion of CCO, CCPA, and CASA to qualify for the CCME exam.

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