CELLEBRITE CRYPTOCURRENCY INVESTIGATIVE TECHNIQUES (CCIT)

Investigative

Course Description

Cellebrite Cryptocurrency Investigative Techniques (CCIT) training is a three (3) day intermediate level course designed to provide investigators of all skill levels and opportunity to successfully complete cryptocurrency investigations. Attendees will learn to leverage tools and resources to reduce investigation time and improve information yield. Participants will also learn investigative techniques aligned with a risk-based approach to tracing the source of blockchain funds and de-anonymizing cryptocurrency transactions with cryptocurrency forensic tools. Upon successfully completing the course and passing the exam, attendees will earn the CipherTrace Certified Examiner (CTCE) certification.

Investigative

Cellebrite aims to support learners in the pursuit of excellence in Digital Intelligence specialty areas without the need to commit to any degree program. Cellebrite's Academic & Learning Paths provide guided training programs and continuous skill set development to achieve various levels of educational or professional goals.

By following a learning path, students can target personal, professional, and leadership skills in a Digital Intelligence career for law enforcement, military, intelligence, and private sector practitioners. Cellebrite's curriculum reflects its commitment to digital intelligence excellence by helping professionals around the world achieve a higher standard of competence and success. , training forensics examiners, analysts, investigators and prosecutors around the world to achieve a higher standard of professional competence and success. Below are general audiences and focus areas relative to this course.

- Digital Forensic Examiners
- Corporate Investigators
- Criminal Investigators

Level

Intermediate

Length

Three-Day (21 hours)

Training Track

Investigative

Delivery Mode

Live Online

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Course Learning Objectives

Upon successful completion of this course, students will be able to:

BLOCKCHAIN AND HOW TO TRACE CRYPTOCURRENCY

In this module, you will learn the fundamental definitions and necessary to understand blockchains and how to trace cryptocurrency. Essential to understanding blockchains and cryptocurrency are the following learning points:

- Discussing what entities are defined as virtual currencies
- An explanation of Distributed Ledger Technology (DLT)
- Providing a definition for the word blockchain, as the word correlates to cryptocurrency
- The description of steps needed to complete a virtual currency transaction
- Understanding how cryptocurrency wallets work

WHAT IS CRYPTOCURRENCY

In this module, you will learn the language of cryptocurrency, including unique terms, phases and characterizations used by legitimate and illicit traders.

- Provide a contrast and comparison of digital currency, virtual currency, and cryptocurrency
- Understand the key characteristics of cryptocurrencies
- Learn what do regulators call cryptocurrency
- Discuss the differences between virtual and Fiat
- Learn to accurately compare virtual currency and electronic money
- Gain knowledge to describe the meaning of Public and Private Keys the cryptography in cryptocurrency

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CRYPTOCURRENCY CUSTODY

In this module, you will analyze the different users and uses for cryptocurrency. Possessing information about the user and uses of cryptocurrency are essential to initiating investigations.

- Review the different categories of cryptocurrency customers
- Learn to apply the different uses for uses of cryptocurrency, to a variety of users
- Discuss the existence and identification of cryptocurrency consultants and software companies
- Understand the role of cryptocurrency miners and node operators
- Explore the aspects and functions the customer types Exchanger (VASP) and Administrator

CRYPTO ENTITIES RISKY AND RISKIER

In this module, you will learn to identify different resources and steps need for intelligent investigations. During the module the instructor and participants will:

- Discuss the processes used by CipherTrace for cryptocurrency monitoring
- Explain the skills needed to evaluate the risks levels of Exchanges
- Explore the variations of decentralized exchanges
- Describe and identify different cryptocurrency laundering services
- Engage in a comprehensive review of
    - Bitcoin ATM Map
    - Crypto ATMs
    - Bitcoin ATMs
    - Tumblers and Mixers
- Gain knowledge about the Dark Market and Dark Vendors

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TRADITIONAL ANTI-MONEY LAUNDERING VS CRYPTO ANTI-MONEY LAUNDERING

In this module, you will learn about the evolutions of cryptocurrency related to conventional Anti-Money Laundering (AML) and Crypto- Anti-Money Laundering.

- Discuss the traditional AML, Capture the Flag (CTF) and sanction concerns
- Review the correlation between cryptocurrency and the Russia 2016 Election Hacking Indictment
- Understand how the Iranian cryptocurrency activities are monitored
- Complete an expanded exploration of the following elements essential to understand criminal activity assessments
    - Customer Due Diligence (CDD) and Enhanced Customer Due Diligence (EDD)
    - Crypto Suspicious Activity Report (SAR) or Suspicious Transaction Report (STR)

WANT TO BANK CRYPTO ENTITIES

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UNDERSTANDING CRYTPO ENTITIES

In this module, you will learn critical elements needed for a successful cryptocurrency investigation that permits the collection of evidence, the structuring of a case, and asset seizure.

- Learn the cryptography of cryptocurrency
- Understand the digital clues associated with change addresses
- Review the unspent transaction outputs (UTXO) remaining after a cryptocurrency transaction
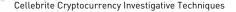
BLOCK CHAIN IN-REAL-LIFE (IRL)

In this module, you will learn how the information gathered throughout the course will be applied using different tools and techniques. The documentation of forensics in cryptocurrency investigations is essential to proving illicit activity. Before conducting digital forensics on physical instruments of the crime, investigators will learn to document activities.

- Discuss the Bitcoin (BTC, the Legacy Model) vs Bitcoin Cash (BCH, Contemporary Model)
- Learn to document activity through Block Explorer
    - IRL
    - Address
    - Blockchain Type
- Documenting Bitcoin Addresses and Identifiers
- Discuss how to evaluate and read blockchain transaction metadata
- Understand how to remove blockchain anonymity
- Explore cryptocurrency anti-money laundering and blockchain forensics

REPORTING

In this module, you will learn about the construction of a report that will sustain scrutiny by defense counsel, confirm rightful asset seizures.

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REPORTING

- Review which useful data points for transaction reporting to record
- Identify and overcome common challenges to cryptocurrency investigations
- Learn to produce a report of findings that are understandable to a layperson.

Get skilled. Get certified.

"Every day around the world, digital data is impacting investigations. Making it intelligent and actionable is what Cellebrite does best. The Cellebrite Academy reflects our commitment to digital forensics excellence; training forensics examiners, analysts, investigators and prosecutors around the world to achieve a higher standard of professional competency and success."

Learn more at: cellebritelearningcenter.com

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