CELLEBRITE CERTIFIED OPERATOR (CCO)
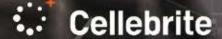# CELLEBRITE CERTIFIED PHYSICAL ANALYST (CCPA)

Mobile Forensics, Investigative

Lafayette Police Department

October 16-20, 2023

1301 South Street, Lafayette, IN 47901

Cellebrite Certified Operator & Cellebrite

Certified Physical Analyst

$4,200.00 (bundle)

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Level

Intermediate

Length

Two-Day (14 hours)

Training Track

Mobile Forensics
Investigative

Delivery Mode

Instructor-Led
Web-Based
Live Online

Course Description

Cellebrite Certified Operator (CCO) is a two (2) day intermediate level certification program designed to further develop and practice fundamental. The CCO course is designed to afford participants an opportunity learns basic and intermediate data extraction techniques to achieve Logical, File System, and Physical extractions in a forensically sound manner. Participants will achieve the CCO certification upon passing a knowledge test and practical skills assessment with a score of 80% or better.

Mobile Forensics, InvestigativeCellebrite Enterprise Solutions (CES), Mobile Forensics

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. Below are general audiences and focus areas relative to this course.

- Digital Forensic Examiners
- Corporate Investigators
- Criminal Investigators

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Course Learning Objectives

Upon successful completion of this course, students 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.

Additional Information about this Course

- CCO is the first level of certification offered by Cellebrite, below CCPA.
- CCO is essential for professionals handle or acquire data from mobile devices.
- CCO is ideal for individuals with basic knowledge in digital forensics or successfully completed CMFF.

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 complete the Cellebrite Mobile Forensics Fundamentals (CMFF) course or test out prior to this class.

Important: Successful completion of this course is defined as the student being able to demonstrate proficiency in the Course Learning Objectives by passing a Final Exam assessment with a minimum score of 80.00% or higher to be awarded a Certificate of Completion.

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INTRODUCTION

- Identify Cellebrite's global presence and service industry
- Describe Cellebrite's core training and certification process
- Recount Cellebrite's accolades and accomplishments
- Review the capabilities engineered in Cellebrite platforms and digital forensic solutions
- Identify other people in the community that can serve as a training or help resource
- Identify the learning objectives related to the course or training product
- Discuss a practitioner's legal responsibilities using Cellebrite products, software, and services

FORENSIC HANDLING OF MOBILE DEVICES

- Install 4PC and review licensing options
- Install Physical Analyzer and review licensing options
- Describe the phases of the digital forensics process
- Populate data on an Android phone to complete extractions
- Conduct Logical extractions of mobile devices
- Review legal considerations for seizing and searching devices
- Describe the importance of proper evidence handling and documentation

TOUCH2 AND 4PC FAMILIARIZATION

- List the components, features, or functions for the Touch2 and 4PC.
- Describe how to purchase and maintain the license(s) for UFED technology.
- Discuss how to update software and firmware for Touch2 and 4PC.
- Conduct an installation of 4PC on a computer workstation.
- Modify Touch2 and 4 PC configurations for the extraction of different devices and investigative needs.

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CELLEBRITE EXTRACTION METHODOLOGIES

- Identify best practices for the extraction of data from digital evidence devices.
- Discuss the methods frequently employed by forensic examiners to acquire data from mobile devices.
- Explain the SIM file system organization.
- Conduct SIM card extractions and cloning comparisons.
- Apply forensic techniques to produce media storage extractions.
- Operate the Touch2 or 4PC, and Physical Analyzer to conduct device extractions.
- Demonstrate the removal of a passcode from a locked device using Touch2 or 4PC.
- Describe the uses for UFED Camera Services.

TRIAGE REPORTING

- Explain the fundamental elements of a Reader (UFDR) report produced by Physical Analyzer.
- Describe the reporting options within the Physical Analyzer interface.
- Compose PDF and UFDR reports using digital evidence artifacts recovered during mock investigations.

FINAL EXAM

- Complete a knowledge-based exam and practical skills assessment
- Evaluate the course components using the Feedback Survey
- Download a Certificate of Attendance
- Download a Certificate of Completion (if awarded)*

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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

EMEA | London, UK

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USA | Las Vegas, Nevada

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Cellebrite Certified Operator

Level

Advanced

Length

Three-Day (21 hours)

Training Track

Mobile Forensics
Investigative

Delivery Mode

Instructor-Led
Web-Based
Live Online

Course Description

Cellebrite Certified Physical Analyst (CCPA) is a three (3) day advanced level certification program designed for technically aware investigators, digital evidence analysts and forensic practitioners. CCPA focuses on post-extraction analysis and advanced search techniques using Physical Analyzer and does not involve the extraction of data from devices. Participants will learn how Physical Analyzer is used to recover deleted data, explore database contents, complete advanced searches, analysand data, verify and validate findings, and create reports. Participants will achieve the CCPA certification upon passing a knowledge test and practical skills assessment with a score of 80% or better.

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- Digital Forensic Examiners

- Corporate Investigators

- Intelligence Analysts

- Legal Professionals

- Criminal Investigators

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Course Learning Objectives

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

- Conduct advanced mobile device forensic analysis
- Recall techniques used for authentication and validation
- Identify functions within Physical Analyzer software which allow examination of various types of data.
- Generating custom reports within Physical Analyzer software.
- Demonstrate proficiency by completing a knowledge-based and practical skills assessment.

Additional Information about this Course

- CCPA is the second level of certification offered by Cellebrite, above CCO and below CASA.
- CCPA is essential for professionals that handle or acquire data from mobile devices.
- CCPA is an ideal course for individuals who successfully completed CCO and CMFF or the CMFF Test Out.

Note: No pre-requisites exist to attend the CCPA class, which is is the third of three, requirements to qualify for the Cellebrite Certified Mobile Examiner (CCME) certification exam. The CCPA course is NOT available as a test-out option for those individuals seeking to achieve CCME pre-requisites. It is recommended that students in this course complete the Cellebrite Mobile Forensics Fundamentals (CMFF) course or test out, and the Cellebrite Certified Operator (CCO) course, prior to this class.

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CELLEBRITE UFED PHYSICAL ANALYZER OVERVIEW

- Perform an installation of Cellebrite UFED products on a computer workstation.
- Review the different licensing options for Cellebrite digital forensic solutions.
- Complete the configurations of Cellebrite Physical Analyzer's advanced settings.
- Explore data extractions from mobile devices using Cellebrite Physical Analyzer.
- Demonstrate viewing data in the Cellebrite UFED Physical Analyzer interface/

INTRODUCTION TO SMARTPHONE ANALYSIS

- Discuss the Android open-source Operating System and file system structure.
- Relate the different varieties of Android security features and complications the protection mechanisms. present to examiners and investigators.
- Discuss the value of Android devices to investigators.
- Analyze an Android device data extraction to answer practical exercise questions.
- Describe Apple hardware designs and technologies.
- Discuss the Apple iOS Operating System and file system structure.
- Discuss the value of Apple iOS devices to investigators.
- Analyze an iOS device data extraction to answer practical exercise questions.

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DATA ANALYSIS TECHNIQUES

- Use the Open (advanced) data extractions option to open and explore an iPhone and iTunes Backup.
- Analyze location data identified in a mobile device data extraction.
- Explore the use of Physical Analyzer human communication language content translation functions.
- Differentiate Wear Leveling and Garbage Collection as the functions influence flash memory data.
- Identify basic flash storage characteristics and NAND organization.
- Conduct automated and manual data carving techniques using Cellebrite Physical Analyzer capabilities.
- Conduct data searches at the byte level and manually tag digital evidence for reporting.
- Conduct data extraction analysis of iOS and Android devices to answer practical exercise questions.

SQLITE WIZARD FAMILIARIZATION

- Identify SQLite databases.
- Recognize SQLite database structures and possible applications.
- Identify the data storage method for SQLite databases.
- Examine SQLite databases and learn how two tables are joined together.
- Describe the events related to the deletion of data from an SQLite database.
- Recall databases performance behaviors capable of destroying data.
- Illustrate the use of practical skills and knowledge necessary to perform logic based Fuzzy Modeling procedures.

VERIFICATION AND VALIDATION

- Describe techniques used to validate digital evidence examination findings
- Conduct authentication and validation testing of collected data
- Generate reports using Cellebrite Physical Analyzer

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FINAL EXAM

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