

Cellebrite Certified Physical Analyzer

Global Forensic Training



Level

Advanced

Length

Three-Day (21 hours)

Learning Track

Cellebrite Mobile Forensics

Delivery Mode



Instructor
Led



Web-
based



Live
Online

Course Description

The Cellebrite Certified Physical Analyzer (CCPA) course is a Three-Day (21 hours) Advanced level certification program designed for tech savvy investigators, digital evidence analysts, and forensic practitioners. The CCPA course focuses on analysis and advanced search techniques using UFED Physical Analyzer; participants will NOT conduct extractions from devices in the course.

CCPA course participants use UFED Physical Analyzer software will be used extensively to explore recovered deleted data, database contents, advanced search and analysis techniques, verification and validation, and reporting. Additionally, due to the incumbent responsibilities synonymous with the credible presentation of digital evidence, participants will practice the skill of verifying, validating, and reporting findings.

Note: No pre-requisites exist to attend the CCPA class, which 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.

CMF Program & Learning Tracks

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 Tracks provide guided training programs and continuous skillset development to achieve various levels of educational or professional goals. By choosing a "track" or "learning path" students can focus on personal, professional, and leadership skills in a Digital Intelligence career for either law enforcement, military, intelligence, and private sector practitioners. .

Below is general information related to the audiences and focus areas for professionals taking this course, as part of the Cellebrite Mobile Forensic (CMF) training program. Cellebrite's CMF curriculum reflects our commitment to digital forensics excellence; training forensics examiners, analysts, investigators and prosecutors around the world to achieve a higher standard of professional competence and success.

The CCPA training is designed for the following professionals:

- Digital Forensic Examiners
- Investigators

Course Objectives

Upon successful completion of the course, the student 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.

Modules and Topics

| Module | Topics |
|------------------------|--|
| Module 1: Introduction | <ul style="list-style-type: none">• Discuss course administration.• Describe Cellebrite's core training and certification process.• Review of the capabilities engineered in the Cellebrite Platforms and digital forensic solutions.• Discuss a practitioner's legal responsibilities using Cellebrite products, software, and services. |

| Module | Topics |
|--|---|
| Module 2: Cellebrite UFED Physical Analyzer Overview | <ul style="list-style-type: none"> • 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 Physical Analyzer interface. |
| Module 3: Introduction to SmartPhone Analysis | <ul style="list-style-type: none"> • 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. |
| Module 4: Data Analysis Techniques | <ul style="list-style-type: none"> • 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. |

| Module | Topics |
|---|---|
| Module 5: SQLite Wizard Familiarization | <ul style="list-style-type: none"> • 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. |
| Module 6: Verification and Validation | <ul style="list-style-type: none"> • Describe techniques used to validate digital evidence examination findings • Conduct authentication and validation testing of collected data • Generate reports using Cellebrite Physical Analyzer |
| Module 7: Final Exam | <ul style="list-style-type: none"> • Complete a , knowledge-based and practical skills assessment • Evaluate the course components using the Feedback Survey • Download a Certificate of Attendance • Download a Certificate of Completion (if awarded)* |

Additional Information About CCPA:

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

Note: Students are offered an optional, knowledge-based and practical skills examination at the conclusion of the course. Successful completion of the exam with a passing score of at least 80.00% results in a certification credential and attendance credit. Completion of the course without a passing minimum exam score requirement awards the student only a Certificate of Attendance.

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.

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

The materials and topics provided herein are provided on an "as is" and "as available" basis without any warranties of any kind including, but not limited to warranties of merchantability, fitness for a particular purpose or guaranties as to its accuracy or completeness. Please note that some materials, topics and items provided herein are subject to changes. Cellebrite makes no warranties, expressed or implied, for registered trademarks of Cellebrite in the United States and/or other countries. Other trademarks referenced are property of their respective owners. Applicable law may not allow the exclusion of implied warranties, so the above exclusion may not apply to you.