



CELLEBRITE CERTIFIED PHYSICAL ANALYST (CCPA)

Mobile Forensics, Investigative



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 Analyser and does not involve the extraction of data from devices. Participants will learn how Physical Analyser is used to recover deleted data, explore database contents, complete advanced searches, analyse 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.

Mobile Forensics, 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 Tracks provide guided training programs and continuous skill set development to achieve various levels of educational or professional goals.

By following a "learning track" or "training 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
- Intelligence Analysts
- Legal Professionals

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 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.

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.

INTRODUCTION



- Discuss course administration.
- 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.

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.

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

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)*



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



Cellebrite Certified Physical Analyst

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