

Cellebrite Certified Physical Analyst (CCPA)

Global forensic training



Level

Advanced

Length

Three days (21 hours)

Training Track

Forensics,
Investigators

Delivery mode

Instructor-Led, On Line
On Demand

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 UFED Physical Analyzer, participants will NOT be conducting extractions from devices in this course. 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.

Students will achieve the CCPA certification if they take and pass a knowledge test and practical skills assessment with a score of 80% or better. The only way to earn the CCPA certification is by taking the exam along with an associated course, there is no test out available.

It is strongly recommended that students in this course complete the Cellebrite Mobile Forensics Fundamentals (CMFF) course or test out, as well as the Cellebrite Certified Operator (CCO) course prior to attending.

Course objectives

Upon successful completion of this 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
- Demonstrate proficiency by passing an exam

Module	Description and objectives
Introduction	<ul style="list-style-type: none"> • Course introduction and administration • Course materials • Instructor introductions • Participant introductions • Cellebrite overview
UFED Physical Analyzer Overview	<ul style="list-style-type: none"> • Installation and Licensing • Configuration • Data Files Settings Configuration • Reporting Capabilities • Report Formats • Report Customization • Capabilities • Opening a Physical Extraction • Device Info Pane • Verify Image Hashes • Analysis of Acquired Digital Evidence • Analyzed Data • Workspace • Timeline Analysis • Hash Set Manager • Malware Scanning
Introduction to Smart Phone Analysis	<ul style="list-style-type: none"> • Android Key Investigative Issues • Android File System Attributes • Rooting Definition • Android File System Basics • IOS Overview • IOS Key Investigative issues • Jailbreaking definition • APFS (Apple File System) • Example of APFS Container • HFS, HFS+ and HSFx (Hierarchical File System) • APFS/HFS+/EXT4 Comparison • Android vs iOS Similarities

Module	Description and objectives
Data Analysis Techniques	<ul style="list-style-type: none"> • Physical Analyzer - Open Advanced Option • Physical Analyzer - Plugin Chain • Physical Analyzer - Chain Manager • Physical Analyzer - Image Data Carving • Physical Analyzer - Automated Data Carving • NAND or NOR • Physical Analyzer - NAND Flash Organization • Garbage Collection • Bad Block • NAND Flash Translation Layer • Physical Analyzer - Writing and Deleting Example • Data Encoding Schemas • Binary, Bytes, and WORDs Simplified • What is the Decimal Value System ? • Hexadecimal • What is the Hexadecimal Value System ? • Big-Endian and Little-Endian Format • ACSII Encoding Tables • 7 Bit SMS Sample • SMS 7bit PDU • Nibble Reversed (Switched) Information • Physical Analyzer - Advanced Search - Find • Physical Analyzer - Values Tab • Physical Analyzer - Highlights Hex Data • Physical Analyzer - Information Frame
SQLite Wizard Familiarization	<ul style="list-style-type: none"> • SQLite Databases Overview . • SQLite Database Structures • SQLite Data Viewing • Table Joins • SQLite Wizard
Verification and Validation	<ul style="list-style-type: none"> • Verification and Validation Methods • Hand Scroll Techniques • Third-party Tools • Using SQLite Databases for Validation
Reporting	<ul style="list-style-type: none"> • Report Elements • Report Elements - Establish Credibility • Report Data - Inclusion or Exclusion • Report Elements - Acquisition of Digital Evidence • Report Elements - Analysis of Digital Evidence • Report Location and Directory • Physical Analyzer Reporting Features • Physical Analyzer Report Formats • Physical Analyzer Report Customization • Physical Analyzer - Additional Fields • Physical Analyzer Report Elements - Summary
Final Exam/ Practical	<p>Participants are offered an optional written examination and a practical skills test at class conclusion. Successful class completion without attempting or passing the optional examination and skills test results in a Cellebrite Physical Analyst Certificate of Completion.</p>

Important notice: required materials for CCPA online on demand

Online On-Demand classes are designed for students who already own or have access to currently licensed Cellebrite hardware and software, prior to starting the class. Students who do not already own or have access to currently licensed Cellebrite hardware and software are encouraged to take our Instructor-Led or Live Online classes.

Read more about the [Required Hardware, Software, and Materials](#) for our Online On-Demand classes at: [cellebritelearningcenter.com](https://www.cellebritelearningcenter.com)

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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.

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