



OXYGEN FORENSICS

Oxygen Forensic[®] Complete (3 Day Course)

Course Description

Students will obtain a start to finish education on the use of Oxygen Forensic[®] Detective. The course introduces advanced methods of mobile device, drone and cloud data collections and analysis. Students will examine, collect and analyze data from iOS, Android, and Windows Phone devices. Students will work to obtain physical images, understand file system formats, storage methods and evidence locations. Students receive training and instruction on Cloud Storage and extraction techniques using Oxygen Forensic[®] Detective. SQLite database data is extremely important to today's smart device examinations. Not only will students receive training on the SQLite database format and creating SQL queries, but Property Lists, recovering deleted data, write-ahead-logs, shared-memory-files and interpreting database artifacts using the SQLite Viewer. Finally students will acquire and process data from drone storages and logs.

Course Objectives

- Gain extensive knowledge of today's mobile devices including iOS, Android, and Windows Phone.
- Understand file system formats and data types found within major smart device operating systems.
- Obtain information that assists in locating, processing and recovering artifacts from the device file system.
- Know how to create advanced SQL queries to recover data from unsupported app and cache files.
- Learn how to forensically extract, recover and analyze data from cloud services and storages.
- Acquire and process drone data from drone storages, log files and mobile applications.

Required Student Resources

Students will receive a manual during class that will contain the class content and worksheets. Some class locations will require the student to supply their own laptop for the training.



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Course Outline Day 1

Topic	Covering
History and Quick Introduction	CDMA/GSM Legality Isolation Techniques Device Security
Different ways to connect to a mobile device	Cable Bluetooth JTAG
Troubleshooting	Drivers Connections ADB
Passwords	iOS Android Blackberry
Logical/Physical collections of Smart Devices	Differences Data Representation of both
Collecting Mobile Device Data	Smart Device Collection Basic data analysis
Backup and Import of Mobile Device Images	iTunes Android JTAG Other Forensic Solutions
Basic Reporting	Create basic report of Smart Device Collection



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Course Outline Day 2

Topic	Covering
Multi-device collections	iOS Android
Cases	Creating Cases, Removing Cases, Archiving Cases Live device Imported Images
App Data	Analysis of valuable data
Key Evidence	Bookmarking
Aggregated Data and Groups	Contacts Merge/Un-Merge
Analytics	Social Analysis Link Analysis Timelines
Searching	Text Regular Expressions Numbers
Advanced Reporting	HTML PDF Associated Images Key Evidence



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Course Outline Day 3

Topic	Covering
Obtaining File System Data	iOS Android Windows Phone
Types of File Systems	iOS Android Windows Phone
Recovering Artifacts from the smart device	Evidence areas File Types Recovery Methods
Cloud Extractions	Authorization Types Data Extraction Principles Dealing with 2FA
Property List	Data Storage Types of Data PLIST Breakdown
SQLite Databases	Data Storage Types of Data SQLite Breakdown FreePages SQL Queries Creating/Running
Drone Data Extraction	Drone Connection and Data Extraction Drone Logs Analysis Drone Data from Cloud Drone Applications Parsing



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Evaluation Procedures and Grading Criteria

Students are evaluated on class participation and the final project. Passing of class will earn Attendance Certificate and access to online certification examination.

Onsite Course

Please check the dates and locations for the onsite 3-Day training there:
<https://www.oxygen-forensic.com/en/training/schedule>

Online Course

If you cannot travel to any of the designated training locations but wish to get trained you can opt for our online training and take it at your pace and at any time. We've taken our 3-day training and put it within our learning management system dividing the course into the well-structured chapters. You can enroll there:

<https://www.oxygen-forensic.com/en/training/online>