



Welcome to the **Oxygen Forensic® Advanced Analysis (OFAA)** training course!

This three-day instructor-led training event is a direct successor to the three-day OFBC course and continues with deep dives into Oxygen Forensic® Detective analytics, database parsing, lost data recovery, alternate data sets and advanced tools such as the Call Data Expert, the SQLite and Property list viewers and Oxygen Maps. Students will investigate IoT devices, application cache database files with the SQLite database and Property list viewers and learn to aggregate and correlate data from multiple sources to enhance the overall investigation in scenario-based exercises.

A solid understanding of Oxygen Forensic® Detective will greatly enhance the deliverables of this course! Oxygen Forensic® Detective is the flagship technology of Oxygen Forensics and a world-class suite of tools that allow an investigator to ingest mobile device data from industry standard extraction formats into a database architecture for single device analysis or multi-device analytics.

Additional in-depth training available for Oxygen Forensic® Detective includes:

- OFDA – Oxygen Forensic® Drone Analysis (1-day, instructor-led)
- OFCE – Oxygen Forensic® Cloud Extraction (1-day, instructor-led)
- OFXiB – Oxygen Forensic® Extraction in a Box (3-day, instructor-led)
- OFAA – Oxygen Forensic® Advanced Analysis (3-day, instructor-led)
- OFBC – Oxygen Forensic® Boot Camp (3-day, instructor-led)
- OFDV – Oxygen Forensic® Detective Viewer (1-day, on-demand)
- OFAT – Oxygen Forensic® Agent Triage (1-day, instructor-led)
- OFDP – Oxygen Forensic® Data Presentation (1-day, instructor-led)
- OFKC – Oxygen Forensic® KeyScout Collection (1-day, instructor-led)
- OFAI – Oxygen Forensic® Analytic Investigation (1-day, instructor-led)

All courses can be accessed buffet-style at a fixed price with a Training pass.

# Course Modules

## Install and Support

This module educates end-users about how to install the latest Oxygen Forensic® Detective (OFD) products and mobile device drivers. Students will learn how to access their unique customer portal to download software and drivers. Additional software will also be described and installed for additional extraction flexibility.

## Technology Review

- Passware Kit Mobile
- Oxygen Forensic® Map
- Oxygen Forensic® KeyScout
- Oxygen Forensic® SQLite Viewer
- Oxygen Forensic® Cloud Extractor
- Oxygen Forensic® Call Data Expert
- Oxygen Forensic® Property List Viewer

## Use Case | Investigation #1

Jumping right into things, the first scenario to work through includes data from IoT devices including Amazon, Google, and Ring. This scenario involves collaboration with a computer forensic unit and includes expanded education and lab work with:

- Oxygen Forensic® KeyScout
- Oxygen Forensic® Cloud Extractor
- Computer hard disk drive evidence files

## Use Case | Investigation #2

The next case includes intensive SQLite database interrogation. As the investigator, you will be assigned on the job education on SQLite database structure, content and viewing methodology. That knowledge will be applied to assist in locating target data from “non-parsed” target files. This scenario involves expanded education and lab work with:

- Oxygen Forensic® SQLite Viewer
- Oxygen Forensic® Property List Viewer

## Use Case | Investigation #3

This team challenge includes OxyAgent extraction, multiple devices and collaborative problem solving to get the most data possible from devices not willing to participate in the challenge!

This challenge includes expanded education with:

- Oxygen Forensic® OxyAgent

#### **Use Case | Investigation #4**

Back to database interrogation. We will continue applying what we've learned with additional database parsing

- Oxygen Forensic® SQLite Viewer
- Oxygen Forensic® Property List Viewer

#### **Use Case | Investigation #5**

With a computer, a large challenge could be – “Who was at the keyboard at the time of the crime?”. With a phone, a large challenge could be – “Who was using the phone at the time of the crime?”. Pretending you have figured that out, now you must answer – “Who's not telling the full story, the user, the device or the call detail records? This challenge includes expanded education and timeline re-creation with:

- Mobile provider records
- Oxygen Forensic® Call Data Expert

#### **Use Case | Investigation #6**

So – whatever you just found is locked -- Augh! – Now what? This challenge includes expanded education with:

- Passware Mobile Kit
- Oxygen Forensic® KeyScout

#### **Use Case | Investigation #7**

This scenario involves an investigation where all chatting and media exchange took place in WhatsApp. The device hosting WhatsApp no longer has the application installed but a token was captured from a device backup and stored in a Google account. Follow the process from discovery of the token to extracting, decrypting, and parsing the database. This challenge explores the WhatsApp capabilities of the Oxygen Forensic® Cloud Extractor.

## Use Case | Investigation #8

Bonus challenge! This lab explores common case information across everything we've encountered. Find common artifacts between these data sets:

- Stan
- Dolly
- Bonny
- Alex
- Smitty
- Gorgeous Git

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Thank you for the interest in Oxygen Forensic® Detective training.

Hope to see you in class soon!