

## OFAI Course Description

Welcome to the **Oxygen Forensic® Analytic Investigation** training course!

This one-day instructor-led training event will deliver methodology to locate, recover, and process all image types in extracted datasets. During this course, students will learn to utilize Facial Categorization, subsequently searching faces found to quickly locate suspects such as registered sex offenders; process all images using Image Categorization to locate everything from CSAM images to license plates, maps, currency, and weapons while also performing searches of text values inside of images and screenshots using Optical Character Recognition. Diving further into the datasets, students will learn how to search HEX to locate potential hidden images.

**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 their customer experience with Oxygen Forensics while learning to install the latest Oxygen Forensic<sup>®</sup> Detective (OFD) products and mobile device drivers. Students will learn how to access their unique customer portal and download any software components needed.

## **Facial Categorization**

This module will teach students how to utilize the Facial Categorization analytic tool to create templates of faces found in all images located in a dataset imported and parsed with Oxygen Forensic<sup>®</sup> Detective and then cluster them. Subsequently, new images will be added to form a face set template which can be compared to all incoming datasets. Labs and datasets used during this course will replicate a real-world scenario of known offenders or trespassed individuals being located inside of images deriving from mobile devices and SD cards.

## **Image Recognition**

Image categorization is based on a neural network that scans the visual composition of an image to approximate the consistency of enough data that matches a particular supported category. During this module, students will learn to run Image Categorization and use the algorithm threshold to locate and analyze potential targets within the image.

## **Optical Character Recognition**

Optical Character Recognition (OCR) automatically identifies typed, handwritten, or printed text located within an image and converts it into machine-encoded text. Whether it's from a scanned document, a photo of a document, a screenshot of a conversation, or an image with subtitles, we can convert it. During this module, students will continue to learn image investigative techniques by running the Oxygen Forensic<sup>®</sup> Detective built-in OCR against all images found in the dataset.

## **Hex Searching**

Oxygen Forensic<sup>®</sup> Detective has the ability to search by hex in file content during data import or in the Search section. This module will demonstrate the ability of Oxygen Forensic<sup>®</sup> Detective to search for hex values for specific file types and signatures. Students will learn to navigate the Hex Manager to efficiently locate multiple file types simultaneously.

## **Reporting**

This reporting wizard module demonstrates how to export data into one of many output formats that can include graphics, hyperlinks, and date | timefilters. Reports can be modified to resemble corporate or agency logos and headers | footers while also being saved as templates for later use. The OFD report wizard specializes in reducing the unwanted noise data around items of importance. Specificity becomes key when data is organized with the report wizard's abilities.

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Thank you for the interest in Oxygen Forensic® Training. Hope to see you in class soon!

