

Drone Forensics for Law Enforcement

ONLINE SELF-PACED CERTIFICATE COURSE

The court-ready drone evidence workflow for law enforcement — scene response and seizure through flight-log recovery, GPS forensics, operator attribution, flight reconstruction, and testimony. Built around what holds up in court, not just how to fly.

Format	Online, self-paced
Duration	16–20 hours
Modules	8 modules + final, 67 lessons
Templates	16 downloadable templates
Access	12 months
Tools (educational)	AXIOM, UFED + Inseyets, Oxygen Detective, ALEAPP, dji-log-parser, ExifTool, QGIS
Credential	Certificate of Completion · 16 CPE
Standards	Aligned with SWGDE 21-F-002 v1.2 and 14 CFR Part 89
Launch pricing	\$497 launch (regularly \$997) — ends June 11

Full Curriculum

MODULE 01 Drone Forensics Orientation

- Why Drone Evidence Matters Now
- UAS Taxonomy and Terminology
- The Drone Evidence Ecosystem (Seven Sources)
- Manufacturers and Platforms (DJI, Autel, Parrot, Skydio, Yuneec, ArduPilot/PX4)
- Common LE Case Types
- Attribution and Corroboration Mindset

MODULE 02 Law, Policy, FAA, and Remote ID

- Legal Authority Planning Framework
- FAA Registration and Part 107 Basics
- Remote ID Compliance Pathways
- 14 CFR Part 89 Message Elements
- Cloud Records and Manufacturer Accounts (SCA)
- Mobile Backups and Companion Apps
- Minimization and Scope Discipline
- Documenting Remote ID Field Observations

MODULE 03 Scene Response, Safety, and Seizure

- Drone Scene Priorities (Priority Pyramid)
- Approaching an Unknown Drone
- LiPo Battery Hazards and Handling
- Photography Plan
- Power-State and RF Isolation Decisions
- Physical Evidence Preservation
- Packaging and Chain of Custody
- Crash Scene vs. Recovered-in-Flight Scene

MODULE 04 Evidence Sources and Artifact Locations

- Aircraft Internal Storage
- Removable Storage
- Standard Remote Controllers
- Mobile App Artifacts on Android
- Mobile App Artifacts on iOS
- Cloud and Manufacturer Accounts
- Computer-Side Artifacts
- Battery and Firmware Data
- Volatile Data and Retention Pitfalls
- Building the Evidence Source Matrix

MODULE 05 Acquisition Workflow

- The Acquisition Decision Framework
- Removable Media Imaging and Hashing
- Mobile Acquisition for Drone Apps
- Smart Controller Acquisition
- Aircraft Internal Storage Acquisition
- Encrypted Storage and Locked Devices at Acquisition
- Data Carving from SD Cards and Aircraft NAND
- Cloud Acquisition Workflow
- When to Stop and Send to a Specialist Lab
- Acquisition Documentation Standard

MODULE 06 Tool-Based Analysis and Artifact Interpretation

- Conceptual Workflow with Magnet AXIOM
- Conceptual Workflow with Cellebrite UFED + Inseyets
- Conceptual Workflow with Oxygen Forensic Detective
- MSAB and Berla iVe Considerations
- DatCon and CsvView Walkthrough
- dji-log-parser for Encrypted Logs
- Decrypting DJI FlightRecord (.txt) and v2/v3 .DAT Logs
- AirData and Public Online Log Viewers
- ExifTool, MedialInfo, ALEAPP for Drone Apps
- SQLite, plist, JSON, mmkv File Review
- Carving Deleted Flight Logs, Media, and SQLite WAL Remnants
- Cross-Tool Validation Standard

MODULE 07 Flight Reconstruction and Corroboration

- Timeline Construction Method
- Time Zone and Clock Drift Pitfalls
- Mapping in Google Earth Pro
- QGIS for Advanced Mapping
- GPS Reliability and Drift
- Spoofing, Jamming, and Anomalies
- Corroboration with Remote ID and CCTV
- Corroboration with Mobile and Vehicle Data

MODULE 08 Reporting and Testimony

- Report Structure for Drone Evidence
- Defensible Language Standard
- Daubert and FRE 702 Considerations
- Direct Examination Preparation
- Cross Examination Preparation

MODULE 09 Final Assessment

- Final Exam Instructions

Enroll at launch pricing through June 11. \$497 launch (regularly \$997). 12-month access, certificate of completion, 7-day money-back guarantee. Government POs and net-30 billing accepted; group and agency licensing available.
thewaldrepcompany.com/courses/drone-forensics-le/