

# 40-Hour Criminal Investigations Using Cellular Technologies Advanced Course

**Hours:**  
— Hosted By —

**Previous attendance of the 40-Hour Criminal Investigations Using Cellular Technologies Basic Course is required to enroll in this course.**

The five-day course is tailored for experienced investigators, crime analysts and fugitive operators who possess a sound understanding of call detail records (CDRs) and seek to enhance their skills in utilizing call detail record metadata for advanced investigations.

This program offers comprehensive training in the evidentiary value of call detail records and geolocation data. The curriculum includes detailed case studies, enabling participants to review investigations using metadata from major cellular providers and various geolocation sources. Through hands-on workshops, students will follow the investigative process from start to finish, building their expertise and confidence. This course is continuously updated to remain current with advancements in cellular technology and investigative techniques.

## Topics Covered Include:

- Specialized Historical Location Data (SHLD) algorithms and advance methodology
- Detailed assessment of data records
- Advanced analysis of pattern recognition
- Breakdown of original raw records from the cellular providers
- Radio frequency theory
- Understanding the forms of cell site identifiers (e.g., CGI, ECGI)
- Deeper review of the various types of cell sites
- Detecting and explaining anomalies in phone records
- Working with vehicle and phone extractions
- Analyzing truncated and rounded geolocation data
- Bridging the gap between CDRs and social media
- Working with Keyhole Markup Language (KMLs) from drive test scans
- Next level cell site dumps and area dumps

## Materials Needed:

- Laptop and mouse
- Google Earth™ Pro installed
- Microsoft Excel installed

## Registration Fee:

\$1,000 per person  
Register online [here](#)

**For more information, please contact our training coordinator at [trainingcoordinator@lexisnexisrisk.com](mailto:trainingcoordinator@lexisnexisrisk.com) | [risk.lexisnexis.com/letraining](http://risk.lexisnexis.com/letraining) | 844.367.9389**