

# Upgrade Your CDR Performance & Elevate Your Skills to a New Level

## Crash Data Retrieval Analysis & Applications

### COURSE CONTENT:

- CDR / EDR terms & conventions
- Airbag deployment decision-making basics
- Crash sensing & critical timelines for decision making & other system inputs
- Crash Pulse recording methodologies (e.g., g vs. time or delta-v)
- Delta-V recording variations: which systems record x-axis only; which record x & y axis; and, for what time periods
- Calculating principle direction of force from CDR data
- NHTSA CFR 49 Part 563 Rule with examples
- Pre-crash data sources & impacts on accuracy
- And More!

Learn about the function of CDR / EDR data that is obtainable from electronic control modules installed in most late-model vehicles and applying it to your crash reconstructions. Crash Pulse recording methodologies, crash sensing and critical timelines, delta-v recording variations, and airbag-system deployment decision making are just a few of the topics covered in this five-day course.

Students work with case examples, CDR reports from actual crashes, and some crash tests. Each generation of modules for all supported vehicle families — along with line-by-line analysis of most parameters — are included in the course curriculum. Students receive copies of the CDR reports used in class for later reference.

Instructors discuss applying data to the crash at hand, including delta-v and closing-speed analysis, principle direction of force (PDOF) calculation and applications, and comparison of such precrash parameters as vehicle speed, throttle position, engine speed, and brake application. Further lessons involve methods of comparing internally recorded data, information from external sources and how they handshake for comparison, and using CDR data in a situationally appropriate reconstruction.

**PREREQUISITES:** Traffic Crash Reconstruction 1 & 2; CDR Operator

40 Hours / 40 ACTAR CEUs

### Register Now

**Centennial, Colorado**  
June 15-19, 2026

### TUITION

\$1,095 per person

### COURSE SPONSOR:

Arapahoe Sheriff

### COURSE LOCATION:

Arapahoe Sheriff  
13101 E Broncos Pkwy  
Centennial, Colorado 80112

### REGISTRATION

Seats are limited.

Register or learn more at:  
[nucps.northwestern.edu/crasselectives](http://nucps.northwestern.edu/crasselectives)

