



Traffic Crash Reconstruction 2

Build upon your crash reconstruction knowledge and take your skills to a new level.

COURSE CONTENT:

- Engineering mechanics
- Equations of motion calculations
- Vehicle behavior in collisions
- Principal direction of force analysis
- Introduction to human factors
- Time-distance analysis
- Conservation of momentum
- Oblique & collinear analysis
- Post-collision drag factors
- Newton's Laws of Motion
- Identifying & analyzing road marks
- Driver strategy & tactics
- Eight real-world case studies

Prerequisites: *Crash Investigation 1 & 2, Vehicle Dynamics, and Traffic Crash Reconstruction 1*. Students should also have physics and math skills that include high-school level algebra, geometry, and trigonometry.

Traffic Crash Reconstruction 2 is the fifth and final course in our foundational series and is a continuation of the skills learned in Reconstruction 1. This prerequisite to many of our advanced Crash Investigation & Reconstruction courses is based on Lynn Fricke's textbook *Traffic Crash Reconstruction*. Students receive expert instruction through lecture and daily real-world case studies, which tie lecture material to hands-on analysis.

Students expand their understanding of crashes and analyze collisions using conservation of energy before delving into special velocity calculations for such situations as vehicle falls, flips, and rollovers. Participants also learn basic skills for analyzing Event Data Recorder information and how to apply such data to traditional reconstructions. They also are introduced to the Monte Carlo Statistical Analysis and learn to solve momentum-based collision sequences using spreadsheet analysis.

Upon successful completion of this course, students will possess the core skills of traffic collision reconstruction.

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ON-LINE OR REMOTE

TUITION
\$1,295 per person

REGISTRATION
Select a section &
Register at:
nucps.northwestern.edu/crashseriesinfo

EARN:
80 ACTAR CEUs