



SPOKANE COUNTY SHERIFF'S OFFICE
Ozzie D. Knezovich, Sheriff

- Training Announcement -

- COURSE:** Collision Reconstruction
- LOCATION:** Spokane County Sheriff's Office Training Center
6011 N Chase Rd
Newman Lake, WA 99025
- DATE:** August 8 – August 26, 2016
- TIME:** 0800 – 1700 (weekdays with 1 hour lunch)
- CLASS SIZE:** Maximum of 20 students
- COST:** None (lodging/per diem expenses are student/agency responsibility)

PREREQUISITE: Students who attend this class should have approx. 5 years worth of experience investigating collisions. Students also need to have completed the Technical Collision Investigation course or its equivalent. Exceptions can be granted on a case-by-case basis with the lead instructor.

COURSE INFORMATION: Collision reconstruction is the effort to determine, from whatever information is available, how the collision occurred. Describing the events of the collision, in more or less detail, is the aim. This collision reconstruction course will provide the training necessary to reconstruct collisions through lecture and course material. The course also provides the required experience through real-world studies that the students must analyze. It will provide them the skill to find undetected facts in available information and the training that gives them the knowledge to deduce from these facts, the circumstances that will prove or disprove a theory of how a collision occurred.

REQUIRED STUDENT MANUAL: Students/Agencies will need to pre-purchase (\$85) and show up on the first day of class with the following book:

Fundamentals of Traffic Crash Reconstruction, Volume 2 of the Traffic Crash Reconstruction Series, by John Daily, Nathan Shigemura, and Jeremy Daily

This book can be purchased through IPTM's website:

<https://store.iptm.org/collections/crash-investigation-publications/products/fundamentals-of-traffic-crash-reconstruction?variant=14724097542>

COURSE TOPICS INCLUDE:

1. Equation Derivation
2. Newton's Laws of Motion
3. Airborne Scenarios
4. Human Factors
5. Time & Distance
6. Conservation of Linear Momentum
7. Vector Diagramming
8. Articulated Vehicles (heavy truck & motorcycle)
9. Conservation of Energy, Crush & Energy Analysis
10. Skid Testing
11. Case Studies

Course supplies students need to bring:

1. Note-taking material, 3-ring binder to hold notes & handouts
2. Graphing paper
3. Mechanical (drafting) pencil
4. Highlighter
5. Clipboard
6. Traffic template
7. Engineer's scale ruler
8. 360-degree protractor
9. Two 30-60-90 degree drafting triangles
10. Scientific calculator with trig functions
11. 25', 100', 300' measuring tapes
12. Camera (optional)

*** Although not required, students are *highly encouraged* to have or bring a TI-83, 84, 89, or Voyage 200 graphing calculator to the class. All students will be given a free TI Accident Equations program for their TI graphing calculator. In addition, students are also *highly encouraged* to bring their own or departmental laptop computer to the class. Like the TI equations program, all students will be given a free copy of an Excel Equation Calculator program. Both the TI and Excel programs will be used quite extensively during the course and allowed to be used on the final exam. Finally, all students will be given a Recon data CD that has numerous reference and additional training materials on it.

For more information about the course, contact:

Sergeant David Thornburg (lead instructor)
Spokane County Sheriff's Office
Voice Mail: (509) 477-2710
Email: dthornburg@spokanesheriff.org

To register, please complete the electronic registration form on the Spokane County Sheriff's Office Web page at <http://www.spokanecounty.org/sheriff/>. If you have further questions, please contact SCSO at (509) 477-3211 or e-mail SCSOtraining@spokanesheriff.org.