



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

- Training Announcement -

COURSE: Collision Reconstruction

LOCATION: Spokane County Sheriff's Office Training Center
10319 E Appleway
Spokane Valley, WA 99206

DATE: September 9 – September 27, 2013

TIME: 0800 – 1700 (weekdays with 1 hour lunch)

CLASS SIZE: 16 students

COST: None for the course itself. Lodging/per diem expenses are the responsibility of the student and/or respective agency. Students must supply their own manual, Fundamentals of Traffic Crash Reconstruction, Volume 2 of the Traffic Crash Reconstruction Series, by Daily, Shigemura, and Daily. Cost is \$75 plus tax at www.ipm.org.

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.

TOPICS INCLUDE:

1. Equation Derivation
2. Newtonian Law
3. Airborne Scenarios
4. Human Factors
5. Momentum
6. Occupant Kinematics
7. Articulated Vehicles (heavy truck & motorcycle)
8. Crush & Energy Methods
9. Vehicle Testing
10. Case Studies

Supplies students need to bring:

1. Note-taking material
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 (optional)
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 data CD that has a lot of reference and training materials on it.

For more information, contact:

Detective David Thornburg (lead instructor)
Spokane Co. SO Traffic Unit
Office: (509) 477-2710
Email: dthornburg@spokanesherriff.org

Contact CJTC to REGISTER for the class