



SRR Training and the Alcoa, TN Police Department present

Crash Reconstruction

This 80-hour course is designed for those officers who wish to advance to the level of reconstructionist. The course contains reconstruction methodologies, derivation of equations sensitivity of the methods to uncertainties in field data and vehicle dynamics. Interested students should have completed SRR's Basic Crash Investigation and SRR's Advanced Crash Investigation or their equivalence as a prerequisite.

This highly technical course requires a strong background in mathematics on the part of the attendee. However, attendees of SRR's *Basic Crash Investigation* and *Advanced Crash Investigation* 80-hour courses will find that this training builds on the knowledge they gained in these two previously attended courses. Upon completing this course, students will:

- Understand and be able to explain Newton's laws of motion
- Understand the difference between kinetic energy and potential energy and how they relate to speed
- Understand and effectively apply reconstruction formulas relating to:

- Minimum speed equations
- Airborne speed equations
- Critical speed equations
- Conservation of Linear Momentum
- Roadway friction adjustment for grade
- Speeds from crush damage

- Kinetic energy equations
- Combined speed equations
- Yaw radius equations
- Vector Addition
- Roadway friction adjustment for braking percentages

Students will also complete the course with a strong knowledge and understanding of the following topic areas:

- In-line Impacts
- Utility Pole Impacts
- Vector Analysis
- Fundamentals of Reconstruction Software Programs

- Oblique Impacts
- Multiple Departure Momentum Analysis
- Special Problems in Momentum
- Analysis of Information and Courtroom Preparation

Cost: \$950.00 per person

Where: Alcoa Police Department, 2020 N. Wright Road, Alcoa, TN 37701

When: November 29 – December 10, 2021

Check-in: 7:30AM – 8:00AM **Class Hours:** 8:00AM – 4:00PM

To Register: Please register online at www.srrtraining.com

Purchase Orders and/or Checks Should be Sent to: SRR Traffic Safety Consulting, LLC, 7 Marion Avenue, Andover, MA 01810

Inquiries can be Directed to: Chief Reggie Redfern (Ret.) Phone: 413-626-9554 Email: reggie@srrtraining.com

Sgt. Nicole Somers, Training, Phone: 865-380-4942 Email: nsomers@cityofalcoa-tn.gov

Instructor: Dale Farmer, has been a reconstructionist since 1996 and retired from the Kingsport, TN PD in September 2013 after 31 years in law enforcement. In 2001, he received accreditation from ACTAR (#1182) and was certified as a DRE in 2005. Mr. Farmer formed Farmer Collision Analysis in 1999 and investigates crashes in Tennessee, Virginia, Arkansas, North Carolina and Kentucky. Mr. Farmer has testified numerous times as an expert in crash investigations and crash reconstruction in Tennessee and Kentucky in Civil, Criminal and Federal Courts. Mr. Farmer currently teaches crash investigation and DUI enforcement classes for the Tennessee Governors Highway Safety Office, Walters State Community College Law Enforcement Academy and the Tennessee Attorney Generals Conference. He joined the growing list of professional instructors for SRR Training in 2016. Mr. Farmer is currently member of the Board of Directors for ACTAR and is nationally known for his expertise in crash reconstruction and his teaching ability in this field.