

COURSE

Commercial Vehicle Collision Reconstruction Course (CVCRC)



Length of Course: 5 days

of Participants: maximum 24

Recommended for:

- Fleet Managers
- Risk Managers
- Safety Supervisors
- Investigators who oversee commercial and or fleet vehicle operations

Prerequisite:

Commercial Vehicle Incident Investigation Course (CVIIC)

Description:

CVCRC involves hands-on instruction related to commercial vehicles. There is a full day of testing and research where field data is collected and subsequently processed in the classroom utilizing the appropriate formulas and theories. There is also a half-day computer lab in which the candidate will be taught how to utilize simple spread sheet software to analyze and present critical investigational data for both reports and court room presentations.

The course is delivered in an adult oriented format utilizing a syndicate process, which enables the candidates to share experiences and investigational protocol for their organization. There are no prerequisites for this course, however all candidates should have some experience in collision or motor vehicle incident investigation. The course is focused on collisions regarding large (heavy) vehicles, but the foundation material and investigational techniques can be applied to any motor vehicle related incident. Actual case studies are “investigated” and analyzed throughout the course on both an individual and syndicate basis, to enhance the learning process.

Details:

The course is divided into five primary components:

- 1) Identification and Interpretation
 - a) Vehicle classification and configuration
 - b) Physical evidence found at collision scenes & Identification of evidence
 - c) Air Brake Systems
- 2) Vehicle Dynamics
 - a) Acceleration factors & Braking performance
 - b) Cornering capabilities
 - c) Weight Shift (transfer) & Centre of Mass
- 3) Speed Analysis
 - a) Speed determination from energy loss – Skid and gouge marks
 - b) Speed from weight shift and brake performance
 - c) Rollover speed calculation
 - d) Critical curve speed & Kinetic Energy calculations



4) Testing and Research

- a) One full day of testing and data collection to prove the formulas which are used and to have practical data for classroom exercises
- b) One half-day computer lab on curve and weight shift analysis

5) Practical Applications

- a) Candidates will use the lessons learned and apply them to actual case studies which will hone their investigational skills and refine the leaning process

The course will be delivered over 5 days with a total of 32.5 hours of instruction. There will be a written exam, which includes a case study exercise. A certificate of completion will be issued upon successful completion of the course.

