



# Automotive Safety Engineering Pty Ltd

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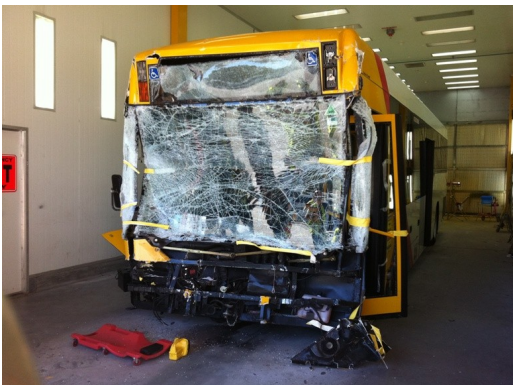
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## VEHICLE ACCIDENT RECONSTRUCTION

Vehicle accident reconstruction is a scientific process of investigation and analysis of the causes and events during a vehicle collision. It involves in-depth research into a vehicle collision kinematics and reconstruction to identify the collision cause and contributing factors in different types of collisions, including the role of the driver, vehicle, roadway and the environment.

Scene inspections and data recovery involves visiting the scene of the accident and investigating all of the vehicles involved in the collision. Investigations involve collecting evidence such as scene photographs, video of the collision, measurements of the scene, eyewitness testimony, and legal depositions. Additional factors include steering angles, braking, use of lights, turn signals, speed, acceleration, engine rpm, cruise control and anti-lock brakes.



Vehicular accident reconstruction analysis includes processing data collecting, evaluating possible hypotheses, creating models, recreating accidents, testing, and utilizing software simulations.

The laws of physics and engineering principles such as the conservation of linear momentum, work-energy methods and kinematics are the basis for these analysis and may make use of software to calculate useful quantities such as impact speed and velocity change during the impact.

After the analysis is completed, forensic engineers compile report findings, diagrams, and animations to form their expert testimony and conclusions relating to the accident.

**ASE is highly experienced in this type of work and can help you as an independent inspector of a crash and will compile you with reports of our findings after the investigation.**