



TECHNICAL ACCIDENT INVESTIGATION & RECONSTRUCTION COURSE

The Society of Automotive Engineers - Australasia is pleased to invite you to attend a 5 day course on Technical Accident Investigation & Reconstruction to be presented by Mr Peter Bellion.

You will be served Morning Tea, Lunch and Afternoon Tea every day and also receive a certificate of completion at the end of the course. All delegates must bring own laptop, as course notes will be provided on CD.

MODULE PURPOSE

To provide training to persons involved in motor vehicle collisions at the investigation, damage assessment, or litigation levels in Technical Accident Investigation & Collision Reconstruction, ensuring proper cause analysis.

PREREQUISITES

To be familiar with basic maths and the use of a scientific calculator and to have some interest or experience in investigating, assessing or litigating motor vehicle collisions.

ASSESSMENT

All participants will be assessed on an informal and formal basis throughout the course. Knowledge will be assessed by written examinations involving calculations, interpretation of evidence contained in plans and photographs.

ASSESSMENT CONDITIONS

Written tests and assignments are conducted with reference to manuals or notes. Practical sessions are assessed in the field under simulated collision scene conditions.



Date: Monday 22nd February - Friday 26th February 2010

Time: 8.30am Registration

Venue: Moonee Valley Racing Club

Address: McPherson Street, Moonee Ponds, Victoria

RSVP: Early Bird: Friday 18th December 2009

Full Registration: Friday 12th February, 2010

MR PETER BELLION



Peter has been employed by Victoria Police for 24 yrs and from 1990 has been attached to Accident Investigation Section and the Major Collision Investigation Unit. He holds the position of Collision Reconstruction Team Leader. Peter completed a Civil Engineering Degree prior to commencing work with Victoria Police.

Peter has lectured on Accident Investigation and Reconstruction to police, engineers, forensic scientists, physics students, emergency services personnel and other interested groups. He has trained in excess of 200 consulting engineers and police officers.

Peter has provided technical expertise to Vic Police, Vic Roads, TAC and the Parliamentary Road Safety Committee.

Peter has provided expert evidence in his field in Superior courts in Victoria, South Australia and Singapore.

Peter in recent times has been performing Senior Sergeant duties within the traffic and transit safety department of Victoria Police.

Technical Accident Investigation & Reconstruction Course

RELATIONSHIP TO COMPETENCY STANDARDS

This course addresses technical accident investigation and reconstruction technique competencies aligned with National and International Standards, at the end of which the successful candidate will be able to:

- a) Protect the scene of a collision and examine it for physical evidence of the collision.
- b) Identify different types of tyre marks and other markings associated with the collision and determine from which object they came and how they were caused.
- c) Prepare an accurate photographic and survey record of all physical evidence and road features relevant to a collision under investigation before the evidence is contaminated.
- d) Prepare a clear and accurate scale plan of the collision scene, including damage profiles of the vehicles involved.
- e) Conduct friction tests and other necessary experiments at a collision scene.
- f) Determine directions of travel of vehicles and persons involved in a collision from analysing the recorded physical evidence in conjunction with the laws of physics.
- g) Calculate speeds of vehicles involved in a collision.
- h) Have the training to enable the individual to develop skills to reconstruct a motor vehicle collision and nominate probable contributions of the human, vehicle and environment factors associated with a collision.

CONTENT

DAY ONE

Introduction to Collision Reconstruction;
Inspection of Scene;
Vehicle Condition & Inspection;
Thrust Diagrams;
Lights & Glass;
Debris, Tyre Marks & Gouges;
Friction & Friction Measuring Devices;
Resultant Drag Factor - Effective Factor.

DAY TWO

Measurements & Diagrams, Geodimeter
Total Survey Station;
Photographs;
Speed from Skid, Yaw, Flips & Vaults;
Trucks, Articulated Vehicles, Tacographs &
Trip Computers.

DAY THREE

Pedestrian Collision Reconstruction -
Vehicle Speed Estimate Formulae;
Motor Cycle Reconstruction;
Dynamics, Time, Distance, Acceleration.

DAY FOUR

Energy, Damage, Vehicle Stiffness;
Conservation of Momentum, Rear
End, Head On, Intersection Collisions,
Examination review.

DAY FIVE

Involves casestudies, written examination, .
This
module comprises learning assessments,
certificate presentation and course
close.

OUTCOME

At the completion of this module the participant should be able to effectively and efficiently examine, record and interpret the results of a collision and provide an opinion as to speed, direction of travel, vehicle and person movements and probable contributions of the human, vehicle and environment factors associated with the collision.



REGISTRATION FORM

TECHNICAL ACCIDENT INVESTIGATION & RECONSTRUCTION COURSE

THIS REGISTRATION FORM MUST BE ACCOMPANIED BY PAYMENT

EARLY BIRD REGISTRATION

SAE-A MEMBERS: \$1600

NON MEMBERS: \$1750

FULL REGISTRATION

SAE-A MEMBER: \$1750

NON MEMBER: \$1900

PARTICIPANT DETAILS

NAME _____

COMPANY _____

ADDRESS _____

POSTCODE _____

PHONE _____

EMAIL _____

TAX INVOICE
ABN 95 004 248 604

PAYMENT DETAILS

PLEASE FIND ENCLOSED MY CHEQUE/MONEY ORDER PAYABLE TO SAE-A

PLEASE CHARGE MY CREDIT CARD FOR THE AMOUNT OF \$ _____

VISA MASTERCARD AMEX

VISA & MASTERCARD SURCHARGE 2%. AMEX SURCHARGE 3%

CARDHOLDER _____

CARD NUMBER _____

EXPIRY DATE _____

SIGNATURE _____

Cancellation: there will be no refunds given, however a substitute attendee may be nominated. Upon receipt of this registration form, you will be contacted with confirmation of your registration and a tax invoice will be receipted for your payment

Please forward this completed form to SAE-A on
Email: marissa@sae-a.com.au or
Send to Suite B, Level 2 - 70 Dorcas Street, Southbank VIC 3006
Phone (03) 9696-5190 FAX (03) 9696-5865