Applied Crash Investigation

Doha, Qatar

Date: 3-5 March 2024

COURSE DESCRIPTION

The International Road Federation (IRF) together with the Qatar Transportation and Traffic Safety Centre (Qatar University) and Traffic Tech are pleased to invite you to this professional course on "Applied Crash Investigation" taking place on 3-5 March 2024 at Qatar University (Doha, Qatar).

This professional course will introduce various aspects required for road crash investigation such as scene sketching theory and practice and the use of various formulas to establish the cause of a crash, minimum speed, etc. It will also address some basic aspects of scene photography and introduce specific crash types such as pedestrian crashes and issues related to time- series analysis.

The course is intended to capacitate the following potential stakeholders in road crash investigation:

- Police crash investigators;
- Private crash investigators;
- Road technicians;
- Road safety practitioners;
- Transportation engineers; and
- Accidentologists

PRESENTER: Benjamin Van Rooyen

Moderador & Coordinador: Dr. Wael Alhajyaseen

LEARNING OUTCOMES

- To promote the importance of accurate crash scene sketching.
- To assist investigators in photographing scenes effectively.
- To use various formulas related to acceleration and deceleration.
- To apply vehicle, fall, vault, and throw formulas to determine minimum speed.
- To introduce pedestrian crash investigation techniques.
- To focus on the basics of lamp examination, etc.
- To assist crash investigators in writing good crash reports.
- To understand the principles of effective court testimony.

DAY 1 – 3rd March, 2024
08:30 – 10:30 **Road crash scene sketches (Theory and practice)** - Roadway definitions - Field sketches - Basic sketch techniques – preparing a field sketch
10:30 – 11:00 BREAK
11:00 – 12:30 **Scene photography** - Basic principles of photographing a crash scene - Crush damage - Roadway evidence - Flares for night-time crashes - Use of drones
12:30 – 13:30 Lunch
13:30 – 16:15 **Pedestrian crashes** - Analyzing pedestrian crashes - Evidence from the roadway - Falls and throws - Considering medical reports **Acceleration and deceleration formulas** - Acceleration rate when speed and time are known - Acceleration or deceleration rate when initial speed at any point is known
16:15 – 16:30 **Day 1 Wrap-up**

DAY 2 – 4th March, 2024
08:30 – 10:30 **Acceleration and deceleration (Continued)** - Practical exercises
10:30 – 11:00 BREAK
11:00 – 12:30 **Acceleration and deceleration (Continued)** - Practical exercises
12:30 – 13:30 Lunch
13:30 – 16:15 **Vehicle throws and falls – Formulas to determine minimum speed** - Formulas for throws and falls - How to locate marks from falls and throws - Measuring falls and throws - Practical exercises **Report writing and court testimony** - Report writing techniques - Court testimony – best practice
16:15 – 16:30 **Day 2 Wrap-up**

DAY 3 – 5th March, 2024
08:30 – 10:30 **Application of formulas – Selecting the correct formula** - Problem solving techniques for crash investigators - Selecting the correct formula when specific information is available - Practical exercises - Crash investigation calculators
10:30 – 11:00 BREAK
11:00 – 12:30 **Specialized investigations – An overview** - Bicycle crashes - Motorcycle crashes - Commercial vehicle crashes - Conservation of linear momentum - investigations
12:30 – 13:30 Lunch
13:30 – 15:30 **Course Assessment**
15:30 – 16:00 **Workshop conclusion and Certificates**

INSTRUCTOR

Benjamin Van Rooyen
Lecturer, National Road Traffic Academy of the South African Road Traffic Management Corporation.

Benjamin Van Rooyen is currently a lecturer at the National Road Traffic Training Academy of the South African Road Traffic Management Corporation.

He has an Honors Degree in Police Science from the University of South Africa (UNISA) and a National Diploma in Traffic Management from the Institute of Traffic and Metropolitan Police Officers of Southern Africa.

He is also an international trainer for the Global Road Safety Partnership and conduct training in various countries. He is a member of the South African Institute of Traffic, Metropolitan Police and Licensing Officials of Southern Africa. (ITMPLOSA). He also completed extensive crash investigation and advanced homicide programmes at the University of North Florida (USA)

Mr. Van Rooyen is a traffic law enforcement veteran with more than thirty years of service in a large traffic law enforcement agency and 17 years in an academic environment. Mr. van Rooyen authored numerous articles and study manuals in the field of traffic science, offence monitoring and traffic law enforcement practice.

REGISTRATION

If you would like to register, please get in touch with the International Road Federation (IRF) at info@irfnet.ch.