Advanced Road Safety Audit and Engineering

Overview
In 2014, 1,775 people died in traffic accidents in Great Britain, a 4% increase from 2013. Although Great Britain remains one of the best performing countries in the world when it comes to road safety, there are still improvements that can be made to reduce the number of deaths and injuries occurring on our roads. This course is split over two days, on the first day delegates will examine ‘human factors’ associated with road safety and will particularly focus on the implementation of the ‘safe systems’ approach to casualty reduction and its relevance in road safety audit and applied engineering practice, as one way of ensuring that safety is given sufficient consideration in the design process. Day 2 covers international road safety engineering and audit process, with a focus on the World Health Organisation (WHO) International Decade of Action and it compares and contrasts typical UK practices and conditions with those likely to be encountered internationally.

Who Should Attend
The course is designed for experienced engineers or road safety auditors who wish to enhance and update their knowledge of road safety engineering issues and also in order to gain annual two day CPD required in UK in order to continue to undertake audits on trunk roads per DMRB HD19/15. The two days of the course are inter-related in their subject matter however it is also possible to attend for one or other of the days depending on the relevance of international practice to the prospective delegate.

Learning Outcomes
On completion of the course, delegates will:
- Be acquainted with the causes of accidents
- Have an understanding of Vision Zero and Safe Systems concepts and practice
- Have and understanding of the purpose and principles behind the international Decade of Action for road safety
- Aligned specifically with ‘human factors’ in road safety, have an understanding of the role of engineering, education and enforcement in addressing road safety
- Have an understanding of the differences in road safety principles and practices worldwide

Topics Covered
- Human Factors in Road Safety
- UK Crash Data
- Safe Systems - Principles
- Safe Systems – Practice
- Practical Workshops 1 and 2
- Role of Enforcement and Education
- Decade of Action for Road Safety
- International Differences – Europe, Middle East, Africa, India and Asia
- Practical Workshops 1 and 2

Programme*

Day 1  Human Factors and Safe Systems: Considerations in Road Safety Engineering and Auditing
09:00  Introduction, Course Objectives
09:30  Human Factors in Road Safety
Causes of crashes aligned with how the human brain really works, user orientated design and interactive discussion of real world examples.
10:15  Break
10:30  UK Crash Data
Stats 19 (or replacement) process and limitations – taking account of human factors is it what we need? Presentation of latest crash data and trends. Discussion about what the data tells us about what the problems are in the UK.
11:00  Safe Systems
What is the safe systems approach? Effect of speed and safe systems. What would be the impact if safe systems universally applied in the UK?
11:30  Safe Systems in Practice
Interactive discussion considering UK examples of road schemes and standard designs and the impact of adopting a safe systems design process – if they were designed in alignment with ‘safe system’ principles then what would change?
  •  Motorway
  •  Managed motorway
  •  Country lane
  •  Urban dual carriageway
  •  Victorian residential street
  •  Shared space scheme
12:30  Lunch
13:30  Practical Workshop (1)
Safety audit of an urban design scheme. Consider human factors and how they inter-relate with engineering based and non-engineering based solutions.
14:15  Break
15:00  Role of Enforcement and Education
Exercise presentations and discussions
16:30  Close of Day 1

Day 2  International Road Safety Engineering and Auditing
09:00  Welcome and Introduction
09:30  Decade of Action for Road Safety
What is the Decade of Action? What is UK doing to comply?
10:15  Break
10:30  International Differences - Europe
Similarities / differences in comparison to UK:
  •  Ireland
  •  France, Germany (including Autobahns)
  •  Eastern Europe
  •  TERN
  •  European Directive - Accreditation
11:15  International Differences - Middle East
Similarities / differences in comparison to UK:
  •  Typical conditions
  •  General requirements
  •  Common problems and issues
11:45  International Differences - Africa, India, Asia
Similarities / differences in comparison to UK:
  •  Typical conditions
  •  General requirements
  •  Common problems and issues
12:30  Lunch
13:30  Practical Workshop (1)
International Road Safety Audit – considering location specific issues and problems.
15:00  Break
15:15  Practical Workshop (2)
International Road Safety Assessment – considering location specific issues and problems.
17:00  Close
*Please note that this is a preliminary programme and is subject to change

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Date of course and location
Title
Forename
Surname
Position
Department
Organisation
Address
Telephone
Email

Please state any special dietary or access requirements
How did you hear about this course?

Attendance Fees
Please tick as appropriate:
☐ Standard rate (please write in amount) ______ + VAT
☐ CILT/Local Authority/Charity rate (please write in amount) ______ + VAT

Method of Payment
Card No. ____________ ____________ ____________ ____________
Expiry Date
CSV Code
Cardholder’s Name
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Invoice
Purchase Order Number
Invoice address (if different from delegate address listed above or the attached PO)

Please attach a copy of your purchase order made payable to PTRC

Telephone
Email

☐ Cheque enclosed for £ ______ made payable to PTRC

Signature of Authorisation
I have read and accept the terms and conditions
Signature ___________________________ Date ___________________________
Name ______________________________

Terms and Conditions
1 Registration Form
Applications should be made on the official registration form. Photocopies are accepted. One form should be completed for each delegate attending an event. It is important that all sections are completed legibly. Delegates are advised to retain a copy of the registration form for reference before sending.

2 Fees
Fees include attendance at lectures, lecture notes, lunch and all refreshments unless otherwise indicated.

Fees do not include overnight accommodation, breakfast and evening meals unless stated or otherwise indicated.

3 Acknowledgement
Receipt of a registration form will be acknowledged by email, delegates will be sent an invoice and an email of acknowledgement. Joining instructions, including a map, will be sent to each delegate by email approximately two weeks before the start of the event.

4 Payment
Unless otherwise stated payment in full must be made at the time of booking. All prices are exclusive of VAT, unless stated otherwise.

5 Cancellation
All cancellations, or alterations to a booking, must be received in writing. To avoid cancellation penalties, substitutes will be accepted at any time, if notified in writing and in advance of the event. Adjustments in fees will be made if there is any change in fee category. Cancellations received in writing up to 14 days before an event will be subject to an administration fee of £75 + VAT or the event delegate fee, whichever is the lower. Cancellations received in writing up to 14 days of the event date or a ‘no show’, will be liable for the full fee.

6 Disclaimer
PTRC reserves the right to vary the programme and to cancel an event if it is under subscribed or for any other reason. In the event of cancellation, where reasonably possible, PTRC aims to give delegates at least two weeks’ notice and the fee will be refunded in full. PTRC will not be held liable for any pre-booked travel, accommodation or similar costs incurred under any circumstances whatever.

7 Data Protection
Details will be held on a database in accordance with the 1998 Data Protection Act. Information will be used for internal marketing purposes only and will not be shared with any external organisations.

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