

Road Safety Audit and Engineering - Ten Day Programme



Overview

The Transport Department of Hong Kong has introduced a Road Safety Audit chapter (Vol 5 Chapter 7) to the Transport Planning and Design Manual (TPDM): an updated Manual was released in April 2019. This road safety audit requirement has now become a key part of the Transport Department's requirements for new public road projects carried out by government departments. For minor public road works scheme where there is little or no impact on road user behaviours, they may be exempted, if justifications are agreed by Transport Department.

Our ten day course programme comprises a wide range of lectures, workshops, assessment exercises and practical site visits over the two weeks.

All delegates completing this course will receive a CPD certificate of attendance, endorsed by The Chartered Institute of Logistics and Transport (CILT UK). This certificate will comply with existing Transport Department training requirements for 10 days formal training for Road Safety Auditors as stated in TPDM Vol 5 Chapter 7.

Road Safety Audits can only be undertaken on highways by properly trained and experienced staff.

Learning Outcomes

On completion of the course, delegates will:

- Be acquainted with the causes of accidents/collisions
- Be acquainted with collision/accident and statistical analyses
- Have an understanding of the holistic roles of engineering, education and enforcement in addressing road safety
- Be aware of the types of safety audits including cycle, non-motorised and motorised users
- Be aware of the safety audit stages and process including the roles and responsibilities of all involved
- Understand how to write and present audit reports
- Be involved in practical site investigations and mitigation measures
- Be aware of the latest developments in the revision of TPDM Vol 5 Chapter 7 to project sponsors, designers and road safety auditors
- Have an understanding of road safety audit standards from international good practices

Who should attend

The course is designed for those who require a solid, comprehensive understanding of the theory and practice of road accident/collision investigation and prevention and those who would undertake road safety audits. This course is designed for engineers, planners, and technicians with a minimum of 2 years' experience in road safety engineering or accident/collision investigations and working in local authorities, consultancies, the Transport Department or executive agencies. It is also suitable for road safety officers, police and Armed Forces personnel and other professionals concerned with road safety but have limited or no experience of road safety auditing activities.

Programme*

Day One - Introduction and Learning Objectives

Overview of course; The global road safety problem; Road safety policies; Education, enforcement and engineering; Road safety strategy; Establishing process and procedures; Safe Systems and Vision Zero; iRAP/ChinaRAP methodology

Day Two - Accident/Collision Analysis

Causation and contributory factors; Road casualty data; Principles of road safety engineering; Collision analysis practical

Day Three - Statistical Analysis

Estimating collision costs, savings including worked examples; Site specific analysis; Conflict analysis; Conflict study; Collision saving and Economic evaluation

Day Four - Road Safety Engineering

Site visits; Site investigation - accident remedial measures; Route assessment - route assessment measures; Area wide assessment - mass action safety measures; Effectiveness of measures

Day Five - Road Safety Assessment - Group Exercises

Introduction to Road Safety Assessment; Road Safety Assessment practical (Group Exercise) referencing local case study; group presentations of Road Safety Assessment findings

Day Six - Introduction to Road Safety Audit

Overview of road safety audit; International best practice; Process and procedures; Checklists and report structure; Different stages of Road Safety Audit; Designer Response reporting

Day Seven - Road Safety Audit Practical (guided) - Group Exercises

Guided Exercise - Road Safety Audit Practical; Good practice in presentation of Road Safety Audit reports; Focus on common road safety issues in Hong Kong

Day Eight - Road Safety Audit Practical (guided) - Group Exercises

Guided Exercise - Road Safety Audit Practical; Good practice in presentation of Road Safety Audit reports; Focus on Vulnerable Road Users in Road Safety Audit

Day Nine - Road Safety Audit Practical ('try for real') - Group Exercises

'Try for real' - Road Safety Audit Practical; delegates form Road Safety Audit Teams and produce Road Safety Audit reports and presentations

Day Ten - Road Safety Audit Practical ('try for real') - Group Presentations / Evolving Technology and Agendas / Course Recap and Q&A

Group presentations of 'try for real' Road Safety Audit exercise; Road safety implications of evolving technology and agendas; recap of the key learning points from the training course; open discussion and Q&A

* Please note that this is a preliminary programme and is subject to change

