



Road Safety Audits: From Concept to Results

Comprehensive and certified training

**Online Training
June 15 – 30, 2020**

Online Training

16 Professional Development Hours



**Road Safety Audits:
From Concept to Results**
June 15 - June 30, 2020
Online Workshop

Background

Road safety audit and inspections serve the common purpose of identifying risk factors related to road design or traffic control that may lead to crashes, or make crashes more severe. In many cases, they also assist network highway operators and city traffic departments in identifying engineering weaknesses and hazardous locations, even in the absence of robust traffic injury data.

Almost 85% of countries report implementing one or more preventive risk assessment measure, yet over 70% of roads surveyed by the International Road Assessment Program (iRAP) in emerging countries were rated 2 stars or under across at least one user category. **These figures suggest a startling disconnect between the theoretical merits of preventive risk assessment and the actual results experienced by countless road users every day.**

Why Online?

- Earn 16 Professional Development Hours
- Expert training by professionals for Professionals: access IRF's unique curriculum and lectures developed by world-class specialists
- Accelerated learning processes: get up to speed and gain new insights in less time and with no travel constraints
- Full access to learning materials and session recordings
- Small classrooms & scheduled One-on-One sessions with instructors
- Self-paced options available
- Interactive group projects and case studies
- Receive IRF Certification

Format

The lectures will be taught over a three-week period with live 2-hour on-line sessions held Monday, Tuesday and Thursday. Upon completion of the training program, the IRF will administer an on-line knowledge test. Participants with a score of 80% of the exam will be awarded with a certificate verifying their successful completion of the course.

Learning Objectives

- ✓ Focus on road deficiencies that lead to severe and fatal injuries
- ✓ Understand at which stages and how to conduct road safety audits
- ✓ Understand the benefits, resources and legal issues associated with road safety audits
- ✓ Identify data sources available to support the work of road safety auditors
- ✓ Use advanced methods to forecast and analyse traffic safety conditions
- ✓ Learn how to present findings to decision makers and make a compelling case for safety investments
- ✓ Learn how to prioritize audit findings within a set investment budget

Target Audience

- National Road & Transport Agency Executives
- Highway Engineers and Managers
- Federal and State Road Safety Agencies
- Road Safety Professionals
- Private Consultants & Contractors

Lead Instructors



Dr. Craig Milligan
CEO, FireSeeds North

Expert road safety engineer applying a proactive and safe systems approach to vision zero. Current chair of TAC Road Safety Standing Committee. Completed road safety audits for more than \$6B of urban and rural road projects at all stages (conceptual design, preliminary design, detailed design, work zone, and pre-opening) covering complex intersections, freeways, bridges, interchanges, and cycling facilities. Road Safety Audit Instructor and Certification Experience Reviewer for the International Road Federation.

Completed in-service road safety reviews of 170 intersections and 4000 km of highway in six countries. Specialized in diagnostics, countermeasure selection, HSM predictive methods, and video conflict analysis.

Completed updates of 10 road safety technical guidelines. Developed safety performance functions and/or network screening tools for four agencies. Authored over 30 road safety publications in top journals and conference proceedings.

Co-Founder and CEO of MicroTraffic, applying the science of surrogate safety to proactively generate intersection risk profiles from overhead traffic video. Emphasis on safe systems diagnostics, injury biomechanics, risk benchmarking, and network-scale applications to augment existing HSM methods.

Schedule

Mondays, Tuesdays & Thursdays (09:00 AM– 11:00 AM US EST)

Monday, June 15	<ul style="list-style-type: none">• Introduction to the safe system approach• Making the Economic Case for road safety investment / Introduction to CBA
Tuesday, June 16	<ul style="list-style-type: none">• Appraising risk on the road network: methods for network screening• Introduction to Crash Data Collection & Analysis
Thursday, June 18	<ul style="list-style-type: none">• Introduction to Human Factors in Road Design• Organizing an audit team• How to conduct a field observation
Monday, June 22	<ul style="list-style-type: none">• Stages at which to conduct a RSA or RSI• Routine & complex audits• Applications to vulnerable road users
Tuesday, June 23	<ul style="list-style-type: none">• Roadside safety• Signs & Pavement markings• Traffic Signals• Auditing a road work zone
Thursday, June 25	<ul style="list-style-type: none">• Urban vs. Rural issues• Using safety manuals and prompt lists• Legal issues with RSAs
Monday, June 29	<ul style="list-style-type: none">• Drafting & presenting an audit report• Following up recommendations• Before & after analyses
Tuesday, June 30	<ul style="list-style-type: none">• Virtual inspection (interactive session)• Final review

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International Road Federation

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