



# Road Safety Audits: From Concept to Results

*Comprehensive and certified training*

**Online Training  
December 6 – 16, 2021**

**Online Training**

**20 Professional Development Hours**



## **Road Safety Audits: From Concept to Results**

**December 6 – 16, 2021  
Online Workshop**

### **Background**

Road safety audits serve the 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 surveyed by the World Health Organization currently report implementing road safety audits or inspections, and it is important for all road safety professionals to understand how to design and implement them correctly for maximum safety benefits.

This course includes access to the **IRF Road Safety Audit Team Leader Certification Program**. This course will be delivered by instructors from the MicroTraffic road safety team with select guest speakers.

#### **Why Online?**

- Earn 20 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 two-week period with live 2,5-hour on-line sessions held Monday through 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 Instructor



**Dr. Craig Milligan**  
**Co-founder & CEO, MicroTraffic**

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.

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

Monday through Thursdays (09:00 AM– 11:30 AM US EDT)

Monday, December 6	<ul style="list-style-type: none"><li>• Introduction to the safe system approach</li><li>• Introduction to road safety audits</li><li>• Making the Economic Case for road safety investment / Introduction to CBA</li></ul>
Tuesday, December 7	<ul style="list-style-type: none"><li>• Appraising risk on the road network: methods for network screening</li><li>• Introduction to Crash Data Collection, Modelling &amp; Analysis</li><li>• Surrogate Data Collection, Modelling &amp; Analysis</li></ul>
Wednesday, December 8	<ul style="list-style-type: none"><li>• Introduction to Human Factors in Road Design</li><li>• Organizing an audit team</li><li>• How to conduct a field observation</li></ul>
Thursday, December 9	<ul style="list-style-type: none"><li>• Stages at which to conduct a RSA or RSI</li><li>• Routine &amp; complex audits</li><li>• Applications to vulnerable road users</li></ul>
Monday, December 13	<ul style="list-style-type: none"><li>• Roadside safety</li><li>• Signs &amp; Pavement markings</li><li>• Traffic Signals</li><li>• Auditing a road work zone</li></ul>
Tuesday, December 14	<ul style="list-style-type: none"><li>• Urban vs. Rural issues</li><li>• Legal issues with RSAs</li><li>• Using safety manuals and prompt lists</li></ul>
Wednesday, December 15	<ul style="list-style-type: none"><li>• Drafting &amp; presenting an audit report</li><li>• Following up recommendations</li><li>• Before &amp; after analyses</li><li>• Mainstreaming road safety into new road projects: IFI perspectives</li></ul>
Thursday, December 16	<ul style="list-style-type: none"><li>• Virtual inspection</li><li>• Using simulation tools</li><li>• Final review</li></ul>

# GLOBAL

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**Better Roads. Better World.**



## **International Road Federation**

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