



Safer Roads by Design™: Road Safety Audit

Expert training by professionals, for professionals

Washington, DC USA
February 26-28, 2018



Workshop

The Road Industry's Most Trusted Brand in Continuing Education



For more than 50 years, an essential part of the IRF's mission has been the organization and delivery of training courses that provide continuing professional development for individuals and contribute to the dissemination of knowledge and expertise throughout the world.

As a strong believer in continuing education, the IRF provides members, as well as road professionals worldwide with educational opportunities that are recognized by engineering and transportation societies worldwide. The IRF's Global Training Curriculum provides technical expertise in classroom and practical settings where attendees can learn from and have direct access to seasoned professionals. Each course not only provides the most relevant, up-to-date information and best practices and solutions, but is also designed to assist attendees in learning to correctly apply the knowledge gained.

IRF Workshops are specifically developed to meet the needs of today's highway managers. Whether you are a representative of a highway agency, a member of a financing institution, consultant or contractor, IRF Workshops will give you the necessary tools to make improvements in your organization. Our mission is facilitate road progress whenever and wherever we can by organizing constructive events, furnishing needed information and assisting with the training and transfer of best practices and technologies around the world.

As Chairman of the International Road Federation, I encourage you to make the most of these opportunities and help fulfill the IRF's vision of better roads for a better world.



Abdullah A. Al-Mogbel
IRF Chairman

About the IRF



OUR MISSION: Building Partnerships

We assist countries in progressing towards better, safer and smarter road systems.

We develop and deliver world-class knowledge resources, advocacy services, and continuing education programs, which together offer a global marketplace for best practices and industry solutions.

We serve a wide range of member organizations from both the public and private sectors of the road and transport industry. Together, we form a global network for information exchange and business development.

We invest in the next generation of transport leaders. Since 1949, the IRF has awarded educational scholarships to individuals in 119 countries to pursue careers in the road and transport industry.

OUR VISION:

Better Roads. Better World

We believe that well-planned, safe, accessible and environmentally sound road networks are fundamental building blocks for human and economic development.

We are committed to increasing road and transport investments to meet the demands for safe and efficient travel and flow of goods and services to help improve the lives of people worldwide.

We engage with governments, development institutions, businesses, and academia around the world to make our vision a reality.

OUR ORGANIZATION: A Global Federation

The International Road Federation welcomes members from government, academia, road associations, research institutes, and private industry.

We are a global not-for-profit organization, headquartered in Washington, DC since 1948 and supported by regional offices throughout the world.

The IRF serves a network of public and private sector members in more than 70 countries by providing world-class knowledge resources, advocacy services, and continuing education programs which together offer a global marketplace for best practices and industry solutions.

COURSE DESCRIPTION

Preventive risk assessment tools, such as road safety audits and inspections, are an effective and essential instrument to help road authorities reduce the number of crashes and casualties.

Risk assessment procedures can typically be applied at successive stages of road planning, design, opening and operations. They all 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 help network road operators and city traffic departments identify engineering weaknesses and hazardous road sections, even in the absence of robust traffic injury data.

In 2015, 82.5% of countries worldwide reported implementing one or more of these procedures, yet over 70% of roads surveyed by the International Road Assessment Program are rated under 2 Stars in a 5 Star Rating System across at least one user category. These figures suggest a startling disconnect between the theoretical merits of road infrastructure safety management and the actual results experienced by countless road users every day.

As a global leader in road safety, the International Road Federation (IRF) is well positioned to present state of the art methodologies and cutting edge technologies that have been field tested to reduce traffic injury risk through auditing & inspections. Workshop attendees will receive the necessary theoretical background and applied practices, with specific application to the roads and highways of roads, to ensure their risk identification programs are effective and impactful.

LEARNING OUTCOMES

- Learn how to focus on road deficiencies that lead to severe and fatal injuries
- Identify the different network safety and risk management tools available to practitioners
- Understand the benefits, resources and liability issues associated with each tool
- Understand the concept of the Road Safety Auditor Team Leader Global Credential and become better prepared for the IRF Qualified Knowledge Exam
- Understand the role and skills of each member of a road safety audit team
- Identify data sources available to support recommendations for remedial measures

VENUE

IRF Global Training Institute

- 📍 Madison Place
500 Montgomery Street Fifth Floor
Alexandria, VA USA 22314
- ☎ Tel: +1 703 535 1001
- ✉ E-mail: info@IRF.global



DAY 1

08:30-11:00	<p>Opening Remarks: What we Want to Achieve</p> <ul style="list-style-type: none"> • Introduction to the course • What the "Safe System" means for road & highway professionals • Factors that contribute to road crashes • Understanding & identifying road risk • Theory and application of Crash Reduction Factors • Making the case for road safety investments
11:00-11:20	Break
11:20-13:00	<p>Fundamentals of Road Safety Auditing</p> <ul style="list-style-type: none"> • Defining Road Safety Audit • Glossary for Road Safety Audit • Four Phases of Road Safety Audit • Road Safety Audit Eight Step Process • Minimum Requirements for a Road Safety Audit Team Leader • Crash Modification Factors versus Crash Reduction Factors • Cost of a Road Safety Audit • Cost-effectiveness criteria for Road Safety Audits & Inspections
13:00-14:15	Lunch
14:15-16:00	<p>Conducting a Safety Audit</p> <ul style="list-style-type: none"> • Conducting a Road Safety Audit or Inspection of a road and/or intersection • Typical observations during a Road Safety Audit • Common Countermeasures recommended by Road Safety Auditors • Using prompt lists • Preparing, finalizing and presenting a Road Safety Audit or Inspection report
16:00-16:30	DAY 1 WRAP-UP



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DAY 2

08:30-10:15	<p>Real World Experiences with Road Safety Audits</p> <p>In this session, the presenter and participants will collaboratively work through case studies of real world road safety audits. Four different stages will be considered (conceptual design, preliminary design, detailed design, and pre-opening). Participants will have a package of drawings to work with.</p> <ul style="list-style-type: none"> • Case Study: Conceptual design RSA of detour and traffic management options for a rural highway bridge rehabilitation project (western Canada, 2017). • Case Study: Preliminary design RSA for the extension of an urban expressway and associated interchanges (western Canada, 2017).
10:15-10:35	Break
10:35-12:15	<p>Real World Experiences with Road Safety Audits (Continued)</p> <ul style="list-style-type: none"> • Case Study: Detailed design RSA of protected bicycle lane network project in a large city's central business district (western Canada, 2017-2018) • Case Study: Pre-opening RSA for a new 2-year detour roadway and associated intersections for an urban arterial railway underpass construction project (western Canada, 2017).
12:15-13:30	<p>Preparing for a Road Safety Inspection</p> <ul style="list-style-type: none"> • Virtual Road Safety Audits • The importance of clarification when preparing a Road Safety Audit Report • Examples of first time Road Safety Audits • Explanation of Group Project • Conduct Group "Start Up" Meeting
13:30-14:45	Lunch
14:45-17:30	<p>Road Safety Inspection Group Project</p> <p><i>Conducted in teams of 4/5 participants</i></p>
17:30-21:00	Preparation Of A Road Safety Inspection Report

DAY 3

08:30-10:30	Case Studies Using Video Conflict Analysis to Support a Road Safety Inspection
10:30-11:00	Break
11:00-12:00	Presentation of a Road Safety Inspection Report
12:00-13:00	<p>RSA Team Leader Qualifying Knowledge Practice Exam</p> <p>Final Review of Road Safety Audit Concept</p>
13:00-14:00	Definition of a Leader
14:00-15:30	WORKSHOP CONCLUSIONS & CERTIFICATES & DISMISSAL



EXECUTIVE VICE PRESIDENT

MICHAEL G. DREZNES

International Road Federation

Michael G. Dreznes assumed his current position of Executive Vice-President of the International Road Federation (IRF) in February of 2012. Dreznes has spent the last thirty years working to make the roads safer around the world. He is recognized as one of the world's leading specialists on roadside safety promoting the concept of "Forgiving Roads," and has conducted multiple road safety training seminars on roadside safety, work zone safety, vulnerable user safety and road safety audit in more than sixty countries around the world. Dreznes is the Co-Chairman of the Transportation Research Board (TRB) AFB20 (2) Roadside Safety SubCommittee on International Research Activities, Co-Chairman of the United Nations Road Safety Collaboration (UNRSC) Decade of Action Pillar 2: Safer Roads and Mobility Project Group, and a member of the PIARC Road Safety Technical Committee 3.2 Design and Operation of Safer Road Infrastructure. In January 2015, Dreznes was named the winner of the TRB AFB20 Roadside Safety Design Kenneth Stonex Lifetime Achievement Award which recognized his passion and contribution to road safety education. Citation on the award stated he has taught thousands of people around the globe the value and benefits of investing in road safety – helping both advanced and developing countries improve their highway systems



EXPERT ROAD SAFETY ENGINEER

CRAIG MILLIGAN, P.ENG., PH.D.

Fireseeds North Infrastructure

Craig Milligan is a road safety engineer Fireseeds North Infrastructure, a civil engineering firm in Canada. Craig is also the founder of MicroTraffic, a provider of road safety video analytics. Craig has 11 years of professional experience. He has completed over 100 road safety studies including dozens of road safety audits for over \$1B of urban and rural road projects. His international work experience includes Morocco, Costa Rica, Qatar, UAE, Canada, and the USA. He earned a Ph.D in road safety engineering as a Canadian Vanier Scholar. Craig is the chair of the Transportation Association of Canada Road Safety Standing Committee and is also active with TRB. Craig worked as a road safety engineer for the World Bank and for a Canadian provincial government before founding Fireseeds North Infrastructure.

HOTEL

IRF has negotiated special IRF Global Training Program attendee hotel rates with the Holiday Inn Hotel & Suites Alexandria-Old Town. Please contact the Holiday Inn & Suites Alexandria-Old Town to make your own room reservations:

HOLIDAY INN HOTEL & SUITES ALEXANDRIA

Address: 625 First St, Alexandria, VA 22314

Phone: (703) 548-6300

BOOK NOW



* A special room rate of US \$109/night, Junior Suite rate of US \$199 has been negotiated at the Holiday Inn and Suite, located just one block from the Training Institute.

Important Note:

Registration can also be completed online at: <https://www.irf.global/event/rsa18-feb-was>



Road Safety Audit: Washington, DC | February 26 – 28, 2018

Delegate Registration

FOR OFFICE USE ONLY
Payment Received Date

Contact Information

REFERENCE CODE (IF APPLICABLE)

YEAR

MONTH

DAY

LAST NAME

MOBILE PHONE (WITH COUNTRY CODE)
PREFERRED CONTACT NUMBER

FIRST NAME

OFFICE PHONE (WITH COUNTRY CODE)
PREFERRED CONTACT NUMBER

EMAIL

FAX NUMBER (WITH COUNTRY CODE)

ORGANIZATION
NAME

JOB TITLE

ORGANIZATION
WEBSITE

ORGANIZATION ADDRESS

CITY

STATE/
PROVINCE

POSTAL CODE

COUNTRY

ORGANIZATION CATEGORY

Government

Academia

Industry Association

Private Sector

Additional Registrants *(please list the names of any additional delegates you are registering)*

LAST NAME

EMAIL

FIRST NAME

JOB TITLE

Registration Rates *(check the one box that applies; all amounts in US dollars. Prices are per person)*

IRF MEMBERS: **US \$1,500**

NON MEMBERS: **US \$2,000**

VISA INVITATION

Do you require a visa invitation letter?

Yes

No

Payment

PAYMENT TYPE

Invoice Check Credit Card

CARD TYPE

Visa MasterCard AMEX

CARD NUMBER

CARD EXPIRATION DATE (MM/YY)

CARD SECURITY CODE

NAME ON CARD

AMOUNT TO BE CHARGED
(IN US DOLLARS)

TODAY'S DATE
(YYYY/MM/DD)

SIGNATURE

PRINTED NAME

SIGNATURE (IF FAXING)

DATE OF APPLICATION (YYYY/MM/DD)

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Better Roads. Better World.



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International Road Federation

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