

Road Safety Audits

Expert training by professionals, for professionals

**Doha, Qatar
April 3-6, 2017**



Certified Training

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 Certified Trainings 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 Certified Trainings 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, because design standards alone cannot guarantee road safety in all conditions.

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 highway 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 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 Qatar 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 as they apply to users of Qatar's road network
- Understand the benefits, resources and liability issues associated with each tool
- Understand the scope of, and correctly utilize, Ashghal's Road Safety Audit Guide (RSAG) and other national and international reference manuals
- Understand the role and skills of each member of a road safety audit team
- Understand which data sources are available to support recommendations for remedial measures

DAY 1

08:30-10:45

Opening Remarks: What we Want to Achieve

- 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

10:45-11:00

Break

11:00-13:00

Network safety management in the State of Qatar

- Qatar's national road safety strategy & action plan to 2022: 1) Overview, 2) Key focus areas, 3) Link to Ashghal actions
- Overview of Qatar's Safe System model
- Overview of actions related to Road Safety Audits in the National Road Safety Action Plan
- Overview of key road safety issues and crash types in Qatar
- Overview of International Road Assessment Program (Qatar-IRAP) and Crash Data Systems in Qatar
- Introduction to iRAP Road Safety Toolkit for evidence based performance of road safety measures

13:00-14:00

Lunch

14:00-15:30

Fundamentals of Road Safety Auditing

- Proactive and reactive approaches to road infrastructure safety management
- Stages at which to conduct audits & inspections
- Cost-effectiveness criteria in road safety audits & inspections
- Actors and stakeholders of road safety audits & inspections
- Applications of road safety auditing to vulnerable road users

15:30-16:00

DAY 1 WRAP-UP

DAY 2

08:30-10:30

Using the Road Safety Audit Guide (RSAG)

- Overview of Manuals, Guides & Specifications in Qatar related road design, road safety and Road Safety Audits
- Overview of development of RSAG with reference to review of international standards
- Areas of application of the RSAG
- Overview of Pedestrian And Mobility access PlanS (Q-PAMPS)
- Accreditation as a Road Safety Auditor in Qatar

10:30-11:00	Break
11:00-13:00	Conducting a Safety Audit <ul style="list-style-type: none">• How to conduct field observations• Using safety audit manuals and prompt lists• Structure of an audit report• Preparing, finalizing and presenting a road safety audit report• How to ensure audit findings are implemented
13:00-14:00	Lunch
14:00-16:00	RSA Site Selection Using Advanced Risk Maps & Data Models
16:00-16:30	DAY 2 WRAP-UP

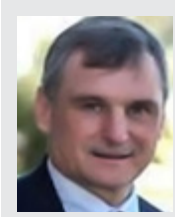
DAY 3

08:30-10:30	Near-Miss Diagrams and Collision Diagrams to Support RSA Diagnostics Improving RSA field work with Smart Glass and Augmented Reality Technologies
10:30-13:00	Field Review (GROUP PROJECT) Conducted in team of 4/5 participants
13:00-14:00	Lunch
14:00-16:00	Preparation of Road Safety Inspection Report (GROUP PROJECT)
16:00-16:30	DAY 3 WRAP-UP

DAY 4

08:30-10:30	Preparation of Road Safety Inspection Report (Continued)
10:30-11:00	Break
11:00-13:00	Presentation of Road Safety Inspection Report (GROUP PROJECT)
13:00-14:00	Lunch
14:00-16:00	Final Review of Road Safety Audit Concept
16:00-16:30	WORKSHOP CONCLUSIONS & CERTIFICATES

LEAD INSTRUCTOR



Michael G. Dreznes

Executive Vice President, International Road Federation (IRF)

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 Sub-Committee 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.

INSTRUCTOR



Dr. Craig Milligan, P.Eng., ing.

Managing Director, Fireseeds North Infrastructure

Dr. Craig Milligan is a road safety and asset management engineer at Fireseeds North Infrastructure, a 10-person specialist firm that he founded and manages. Craig has conducted over 100 road safety audits and is an expert on advanced technology and methods for network safety management, black spot analysis, safety audits, and countermeasure evaluation. He was named a Vanier Scholar, the highest possible honor for Ph.D. students in Canada, and he completed his thesis on risk analysis in safety performance forecasting. His firm developed and pioneered the use of Google Glass technology for enhanced road safety audits. His firm also pioneered the world's first video analytics system that works with drones or pole-mounted video to analyze near-misses at intersections using a safe systems approach centered on the human body's limited ability to withstand force transfers.

A frequent speaker, Craig has given over 150 lectures, presentations, and training seminars to engineers and safety professionals. He is vice-chair of the Transportation Association of Canada Road Safety Standing Committee and former board member of the Canadian Association of Road Safety Professionals. Craig was a road safety engineer with the World Bank and a provincial government before founding Fireseeds North Infrastructure.

Important Note:

Registration can also be completed online at: www.irf.global/event/c6-rsa-doha



Road Safety Audit: Doha | April 3 – 6, 2017

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
LAST NAME	EMAIL
FIRST NAME	JOB TITLE
LAST NAME	EMAIL
FIRST NAME	JOB TITLE
LAST NAME	EMAIL
FIRST NAME	JOB TITLE
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 \$3,000**

NON MEMBERS: **US \$4,000**
(Non-Qatari Attendees)

QATARI ATTENDEES: **Please contact Dr. Wael K. M. Alhajyaseen**
wyaseen@qu.edu.qa

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

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PRINTED NAME	SIGNATURE (IF FAXING)	DATE OF APPLICATION (YYYY/MM/DD)
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GLOBAL

KNOWLEDGE • ADVOCACY • EDUCATION
BEST PRACTICES • INDUSTRY SOLUTIONS



Building Industry Partnerships

Better Roads. Better World.



www.IRF.global

International Road Federation

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