



Hosted by



UNITED ARAB EMIRATES
MINISTRY OF INFRASTRUCTURE
DEVELOPMENT

Safe Roads by Design™: Roadside & Work Zone Safety

Expert training by professionals, for professionals

Dubai, UAE
July 14-16, 2019



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.

ROADSIDE & MEDIAN SAFETY COURSE DESCRIPTION

Attendees are exposed to multiple aspects of Roadside and Median Safety, including longitudinal barriers, crash cushions, terminals, transitions, "forgiving poles," rumble strips and high friction surface technologies. They will be introduced to the global best practices for roadside and median safety, and they will be taught the importance of site specific data to determine the most appropriate product for a particular application. They also will become familiarized with the AASHTO Roadside Design Guidelines, as well as the performance testing criteria being utilized in the United States (MASH / NCHRP 350) and in Europe (EN1317/EN12767) to allow them to make informed choices.

Selecting the correct roadside or median safety countermeasure can be a life or death decision. To make the right decision a specifier needs to understand certain criteria with regard to these products, and also have a clear understanding of the site specific conditions where these systems are to be used. This course reviews the state of knowledge and presents processes to determine appropriate countermeasures based on site conditions.

LEARNING OUTCOMES

- Recognize the need for proper, tested roadside and median safety hardware and other roadside safety countermeasures
- Comprehend how to identify roadside and median safety deficiencies and determine the appropriate countermeasure
- Learn how to determine the appropriate roadside or median safety measure using the concept of "Eliminate, Move, Modify, Shield, Delineate"
- Gain a working knowledge of EN1317/EN12767 European and NCHRP 350/MASH United States testing criteria
- Learn about global best practices and state of the art technologies and concepts for roadside safety

WORK ZONE SAFETY COURSE DESCRIPTION

Motorists constitute more than eighty percent (80%) of the fatalities in work zones. Road Authorities are responsible for the safety of these motorists and they must establish and enforce the criteria that contractors must follow to design a safe work zone.

Attendees are exposed to the concept of the "Five Elements of a Work Zone" and each of these elements are discussed in detail to understand what must be done to make them safe for motorists as well as workers. Attendees will learn how to design a safe work zone and they will learn about the newest technologies for work zone safety. The use of positive protection from crash worthy barriers, truck mounted attenuators, dynamic, variable message signs, average speed camera enforcement and flagger training will be among the topics discussed.

LEARNING OUTCOMES

- Understand that the road authority is responsible for the safety of its motorists in a work zone
- Comprehend how to design a safe work zone for both motorists and workers by using best practices and state of the art technologies and concepts in each of the five work zone elements
- Learn about global best practices and state of the art technologies and concepts for work zone safety

DAY 1

08:00-08:30	Introduction & Opening Remarks
08:30-10:30	Using the Safe System Approach to Design "Forgiving Roads"
10:30-11:00	Break
11:00-11:30	Status of Median & Roadside Safety in Dubai
11:30-13:00	Forgiving Poles and Longitudinal Barriers
13:00-14:00	Crash Cushions
14:00-14:30	Summary Discussion
14:30	Dismissal

DAY 2

08:00-09:30	Transitions and Terminals
09:30-10:00	Roadside/Median Safety Summary & Roundtable Discussion
10:00-11:00	Work Zone "Battlefield" - Fundamentals of Work Zone Safety
11:00-11:30	Break
11:30-12:00	Status of Work Zone Safety in Dubai
12:00-13:00	Truck Mounted Attenuators (TMA)
13:00-13:30	Signage and Delineation in Work Zones
13:30-14:30	Overview of the Five Elements of a Safe Work Zone
14:30	Dismissal

VENUE

**Ministry of Infrastructure
Development, Dubai**

 Al Qusais 1 - Dubai - United Arab
Emirates



DAY 3

08:00-09:00	Introduction to Road Safety Audit /Inspection
09:00-11:00	Typical Road Safety Audit/Inspection Issues/Countermeasures
11:00-11:30	Break
11:30-12:00	Status of Road Safety Audit Dubai
12:00-13:00	Preparing and Presenting a Road Safety Audit/Inspection Report
13:00-14:00	Defining an Effective Leader
14:00-14:30	Summary Discussion Distribution of Certificates
14:30	Dismissal



INTERNATIONAL ROAD FEDERATION

MICHAEL G. DREZNES

Executive Vice President

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.

GLOBAL

KNOWLEDGE • ADVOCACY • EDUCATION
BEST PRACTICES • BUSINESS OPPORTUNITIES

Better Roads. Better World.



International Road Federation

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