



IRF
GLOBAL

SPEED
LIMIT
35

Safe Roads by Design:

Making Roads Safe for all Users

Comprehensive and certified training

**Online Training
Sep 13 – Oct 1, 2021**



Online Training

20 Professional Development Hours



Safe Roads by Design: Making Roads Safe for All Users

September 13 – October 1, 2021

Online Workshop

Background

The IRF On-line **Safe Roads by Design™: Making Roads Safe for all Users** certified training program is one of the most comprehensive road safety training programs in the world. Experts in the field will present best practices and state of the art technologies in Roadside/Median Safety, Work Zone Safety, Vulnerable User Safety, Traffic Management and Road Safety Audits over a three week period. The purpose of this training program is to help participants to understand what can be done to reduce the number of road crashes and the number of fatalities and serious injuries from road crashes that do occur.

Upon completion of the training program, the IRF will administer a proctored on-line test. Participants with a score of 80% of the exam will be awarded with a certificate verifying their successful completion of the course.

Why Online?

Each registrant will need his/her own computer to participate in the sessions. You will have access to curriculum and lectures developed by the IRF experts who teach workshops at IRF's brick and mortar training sites. The lectures will be taught over a three week period with live two hour on-line sessions held on Monday, Wednesday, and Friday of each week. The third week only will add a fourth session on Thursday of that week. If you miss a lecture, no problem, the lectures will be recorded and sent to all registered participants after each session, and they will be available on-line as well. As an on-line participant, you will share experiences with many of your peers from around the world and have opportunities to interact through chats, and group projects.

Learning Objectives

- ✓ **Gain a clear understanding of methods used to identify dangerous roadside /median hazards and understand how to choose the correct options to correct the situation**
- ✓ **Understand the road safety issues facing pedestrian, bicyclist, motorcyclist, public transport and non-motorized vehicle safety**
- ✓ **Obtain an understanding of the five elements in a work zone how each of them can be made safe for the workers, and all road users**
- ✓ **Learn how to create an effective road safety audit team and how to conduct a road safety audit/road safety inspection**

Course Schedule all listed times are US Eastern Daylight Saving Time (GTM -4).

<p><u>SESSION 1</u> <u>Monday September 13</u> <u>11:00-13:00</u> Status of the Second Decade of Action Using the Safe System Approach to Design “Forgiving Roads”</p>	<p>LEARNING OBJECTIVES: Gain a clear understanding of the scope and gravity of the global road safety issue with an introduction to the United Nations Decade of Action and the Safe System Approach Countermeasures. Clearly understand the “three legged stool” approach to road safety; the road user, the vehicle and the road itself as well as the “Five “E’s”; Engineering, Education, Enforcement, Emergency Services and Evaluation</p>
<p><u>SESSION 2</u> <u>Wednesday September 15</u> <u>11:00-13:00</u> Forgiving Poles, Longitudinal Barriers</p>	<p>LEARNING OBJECTIVES: Introduction to the strategic approach to make roadsides and medians safe by using countermeasures designed to either keep vehicles on the roadway, provide for a safe recovery if vehicles leave the roadway or reduce the severity of the crash. A detailed explanation of the proper use of energy absorbing poles and longitudinal barriers will be provided to ensure properly tested products designed for the site conditions are used.</p>
<p><u>SESSION 3</u> <u>Friday September 17</u> <u>11:00-13:00</u> Crash Cushions, Transitions & Terminals, Roadside/Median Safety Summary & Discussion</p>	<p>LEARNING OBJECTIVES: Understand how crash cushions, terminals and transitions are designed to work. Learn how to select the correct crash cushion or terminal or transition for a hazard based on site specific criteria. The session will include a summary of the current testing criteria being used for these roadside safety products in Europe and the United States. Session will conclude with an examination on Roadside/Median Safety.</p>
<p><u>SESSION 4</u> <u>Monday September 20</u> <u>11:00-13:00</u> Introduction to the Work Zone “Battlefield” - Fundamentals of Work Zone Safety</p>	<p>LEARNING OBJECTIVES: Gain an understanding how to design a safe work zone using proper temporary traffic control plans based on the length of time for the project, the number of vehicles, speed of the vehicles and the proximity of the work to the roadway. Use of the Manual of Traffic Control Devices (MUTCD) will be discussed as well as an introduction to a variety of work zone safety concepts, including portable barriers, Truck Mounted Attenuators (TMA), portable crash cushions, flaggers, proper horizontal and vertical signage and portable traffic signals.</p>
<p><u>SESSION 5</u> <u>Wednesday September 22</u> <u>11:00-13:00</u> Truck Mounted Attenuators (TMA) Signage and Delineation in Work Zones</p>	<p>LEARNING OBJECTIVES: Clearly understand the safety benefits for the motorist, the truck driver and the truck by using a properly designed and tested Truck Mounted Attenuators (TMA). Understand the global best practices being used to provide “Positive Guidance” to make work zones safe using illumination, delineation and signage.</p>

<p><u>SESSION 6</u> <u>Friday September 24</u> <u>11:00-13:00</u> Overview of the Five Elements of a Safe Work Zone Work Zone Safety Summary & Discussion</p>	<p>LEARNING OBJECTIVES: Learn the five elements of any work zone; Advanced Warning Area, Transition, Buffer Zone, Work Area and Termination, and understand the concepts, products and global best practices being used to make each element safe for all road users. Session will conclude with an examination on Work Zones.</p>
<p><u>SESSION 7</u> <u>Monday September 27</u> <u>11:00-13:00</u> Defining a Vulnerable User Introduction to Infrastructure Safety Management Segment Issues & Countermeasures for Pedestrians</p>	<p>LEARNING OBJECTIVES: Introduction to the Infrastructure Safety Management concept to make roads safe for all road users, including motorists and Vulnerable Road Users such as pedestrian, motorcyclists, bicyclists, public transport and non-motorized vehicles. Gain a clear, in depth understanding of the concepts, products and global best practices being used to make roads safe specifically for pedestrians.</p>
<p><u>SESSION 8</u> <u>Wednesday September 29</u> <u>11:00-13:00</u> Segment Issues & Countermeasures for Bicyclists, Motorcyclists, Public Transit Users, Others Vulnerable Road User Safety Summary & Discussion</p>	<p>LEARNING OBJECTIVES: Clearly understand the global best practices and state of the art technologies and concepts being used to make roads safe for all road users with an emphasis on bicyclists, motorcyclists, public transit and non-motorized vehicles. Session will conclude with an examination on Vulnerable Road User Safety.</p>
<p><u>SESSION 9</u> <u>Thursday September 30</u> <u>11:00-13:00</u> Introduction to Road Safety Audit Conducting a Road Safety Audit</p>	<p>LEARNING OBJECTIVES: Introduction to the eight stages of a road safety audit/inspection; identify the project, select a team, conduct a pre-audit/inspection team meeting, perform field review or drawing observations, conduct an audit/inspection analysis and prepare the report of the findings, present audit/inspection findings to Project Owner/Design Team, Project Owner/Design Team prepares a formal response and incorporation of findings into project when appropriate. A series of countermeasures will be discussed based on findings from actual road safety audits and inspections.</p>
<p><u>SESSION 10</u> <u>Friday October 1</u> <u>11:00-13:00</u> Preparing a Road Safety Audit Report Innovative Financing Effective Leadership Summary and Discussion IRF SRD Qualifying Knowledge Exam Instructions</p>	<p>LEARNING OBJECTIVES: Learn how to present findings from a road safety audit/inspection. Experience a couple of virtual road safety inspections. Understand the concept of being an effective leader in any aspect of life. Session will conclude with an examination on Road Safety Audit and an explanation of the IRF Safe Roads by Design Qualifying Knowledge Examination that must be taken by all attendees.</p>



If you are unable to attend one of these sessions live, please let the course instructor know.

Lead Instructor



Mike Dreznes

Dreznes has spent the last thirty-five years working to make the roads safe around the world. He is recognized as one of the world's leading specialists on roadside/median safety promoting the concept of "Forgiving Roads," and has conducted scores of 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 was the Co-Chairman of the Transportation Research Board (TRB) AFB20 (2) Roadside Safety

Subcommittee on International Research Activities from 2001-2019. He is the 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 Committee Kenneth Stonex Lifetime Achievement Award. In September 2020, Dreznes was named the Road Safety International Ambassador for the Decade of Action by the Puerto Rico Local Technical Assistance Program (LTAP)

Registration

- 1,900 USD IRF Members – (Individual Participant)
- 1,500 USD IRF Members – (Groups of 2 or more from same organization)
- 2,200 USD Non IRF Members – (Individual Participant)
- 1,800 USD Non IRF Members – (Groups of 2 or more from same organization)
- 1,500 USD US State DOTs & City Officials

Registration: <https://www.irf.global/event/srd21-ws-sep-online-training>

For any support, please contact melabyad@irf.global

System Requirements

Computer Requirements

Operating System

Windows 7 - Windows 10, Mac OS X 10.9 (Mavericks), macOS Catalina (10.15), Linux, Google Chrome OS, Android OS 5 (Lollipop) - Android 9 (Pie), iOS 10 - iOS 12, Windows Phone 8+, Windows 8RT+

Web browser

Google Chrome (most recent 2 versions)

Mozilla Firefox (most recent 2 versions)

Internet Explorer v11 (with Adobe Flash if running Windows 7)

Apple Safari (most recent 2 versions)

Microsoft Edge (most recent 2 versions)

Internet connection

1 Mbps or better (broadband recommended)

Hardware

2GB of RAM (minimum), 4GB or more of RAM (recommended)

Microphone and speakers (USB headset recommended)

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BEST PRACTICES • BUSINESS OPPORTUNITIES

Better Roads. Better World.



IRF[®]
— GLOBAL —

International Road Federation

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