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# Human Factors in Road Safety

*Comprehensive and certified training*

**Online Training  
June 21-24, 2021**



# Online Training

**10 Professional Development Hours**



## Human Factors in Road Safety

### June 21-24, 2021

### Online Workshop

#### Background

In the past it has been popular to say that more than 90% of crashes are due to human error. However, it would be more accurate to describe these crashes as system failures involving a breakdown of the human-machine interface. The safe systems approach views safety outcomes as resulting from the interaction and joint performance of primary system elements: road users, vehicles, and infrastructure. It is therefore incumbent on road safety and design professionals to develop a strong understanding of human performance within the transportation system.

This course is about learning to design with the human in mind. The human is the most complex and variable element of the transportation system, but professionals who learn the human's design parameters and how to make infrastructure that is compatible with these parameters will help deliver substantial gains in road safety during the second Decade of Action. The first half of the course provides a theoretical foundation and grounding in understanding human limitations, how humans process information, how humans complete the driving tasks, and how humans end up making errors. The second half translates the theory into practice, helping designers to bring positive guidance, design consistency, and self-explaining roads to their work. The second half of the course will be rich with examples and application-ready lessons.

#### Why Online?

- Earn 10 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
- Receive IRF Certification

#### Format

The lectures will be taught over a one-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.

## Target Audience

- National Road & Transport Agency Executives
- Highway Engineers and Managers
- Federal and State Road Safety Agencies
- Road Safety Professionals
- Private Consultants & Contractors

## Structure

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

Day 1	Human Limitations and Parameters. Information Seeking and Processing Principles.
Day 2	Driving task models. Driving, cycling, and pedestrian errors.
Day 3	Providing positive guidance and avoiding information overload.
Day 4	Delivering design consistency and self-explaining roads

## 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.

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## **International Road Federation**

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