



Safe Roads by Design:

Making Roads Safe for All Users

Comprehensive and certified training

**Online Training
May 2 – 11, 2023**



Online Training

16 Professional Development Hours



Safe Roads by Design: Making Roads Safe for All Users

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Online Workshop**

Background

According to the Safe System approach, death and serious injury in road collisions are not an inevitable price to be paid for human error. Well-designed and properly maintained roads can reduce the probability of road traffic accidents, while “forgiving” roads (roads laid out according to Safe System principles) can reduce the severity of crashes that do happen.

Selecting a road safety countermeasure can thus be a life-or-death decision: specifiers need to understand certain criteria with regards to available systems or design scenarios, and also have a clear understanding of applicable standards, as well as site-specific conditions where they are to be used. This course reviews the state of knowledge and presents processes to determine appropriate road engineering countermeasures based on these site conditions.

Why Online?

- Earn 16 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
- Interactive group projects and case studies
- Receive IRF Certification



IRF Global is now recognized as an approved training provider by the Chartered Institution of Highways and Transportation (CIHT), a respected professional body that provides transportation professionals with recognition, support and business insights to accelerate their careers and influence the future of the sector.

Format

The lectures will be taught over a two-week period with live 2,5-hour on-line sessions held Tuesday 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.

Learning Objectives

- ✓ Focus on road deficiencies that lead to severe and fatal injuries
- ✓ Understand the fundamental concepts of human-centered road design
- ✓ Understand how to select traffic control devices based on site conditions
- ✓ Identify data sources available to support the work of road safety professionals
- ✓ Understand the scope of, and correctly utilize national and international reference manuals
- ✓ Use advanced methods to forecast and analyse traffic safety conditions based on design decisions
- ✓ Learn how to present findings to decision makers and make a compelling case for safety investments

Target Audience

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

Lead Instructor



Dr. Jean-François Gysel, P.Eng., M.A.Sc., Ph.D.

Jean-François is a civil Engineer whose expertise includes Transportation Planning, Traffic Management, ITS, Road Design, Public Transit, Active Mobility and Road Safety. He has more than 35 years of professional experience in over thirty countries. In addition to his technical expertise, Jean-François has a strong strategic business experience related to Project Management, Business Development, Mergers and Acquisitions and has prepared and facilitated numerous training courses in Transportation. Jean-François is an independent consultant in Transportation Engineering and Strategic Development, but he is also the President of Engineers Without Borders Quebec, Executive Director of the Transportation Association of Canada (TAC) Foundation, Past-Chair of the TAC Workforce

Development Committee and Past-Chair of the Canadian national committee of the World Road Association (PIARC). He is also a member of the Board of the TAC Foundation, of the Quebec Transport Association (AQTR) and of the Order of Engineers of Quebec Foundation.

Schedule

Tuesday through Thursday (8:00 AM– 10:30 AM US EDT, 14:00 – 16:30 CET, 17:00-19:30 GST)

Session 1	What “Vision Zero” means for Road Safety Professionals: <ul style="list-style-type: none">• Introduction to the Safe System Approach• Factors that contribute to road crashes• Safe Speed Principles• Integrating Safety into Road Design: perspectives of the World Bank
Session 2	Developing a Human Centered Road Design <ul style="list-style-type: none">• Human behavior, limitations and Parameters• User expectations, Mental Workload & Risk Compensation• Self-explaining roads Concept• Positive guidance and Design consistency
Session 3	Using Traffic Control Devices <ul style="list-style-type: none">• Introduction to the MUTCD• Vertical Signaling• Road Markings• Measuring and maintaining TCD assets
Session 4	Forgiving Roadside Safety Concepts <ul style="list-style-type: none">• Clear Zone concepts• Roadside & Median Safety• Work Zone Safety
Session 5	Protecting Vulnerable Road Users <ul style="list-style-type: none">• Defining VRUs (Pedestrians, Cyclists, Elderly, Children, mobility restrained people)• Traffic Calming Concepts and Management• Speed Management in Urban Areas and School Zones
Session 6	Measuring the Effectiveness of Road Safety Interventions <ul style="list-style-type: none">• Building a business case for road safety investments• Star Rating Systems• AI applications• Examples of before & after case studies (including black spot interventions)

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International Road Federation

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