



IRF
GLOBAL

Managing Road Tunnel Safety

Comprehensive and certified training

**Online Training
September 16-22, 2020**



Online Training

8 Professional Development Hours



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Online Workshop

Background

Tunnel safety has received significant attention in recent years as a result of major accidents that have led to fatalities, casualties and considerable economic damage. Due to the enclosed nature of a tunnel, the occurrence of a relatively minor incident has the potential to develop into a catastrophe as well as cause significant damage to tunnel infrastructure. In this practical workshop best-practices and the effect of existing tunnel safety measures on the safety level and management of a tunnel are discussed.

Why Online?

- Earn 8 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

Format

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

The course is designed to support participants' learning objectives in the following areas:

- ✓ Safety characteristics and risks of road tunnels
- ✓ Tunnel "safety chain" applied to all phases of design & management
- ✓ Role of ventilation & tunnel equipment in mitigating fire hazards
- ✓ Principles of Operation & Management of a Road Tunnel
- ✓ How to work with all stakeholders in the road safety tunnel process

Target Audience

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

Course Instructors



Philippe FENAIN

Senior consultant in road infrastructure management with over 30 years of international experience in the industry.

Philippe has an extensive expertise in road operations and road safety in multicultural environments. His work experience includes 15 years within the Abertis Group, a global leader in toll roads concessions and operations, at senior positions such as Corporate Director of Operations & Safety, overseeing in this role more than 60 urban and non-urban tunnels spread in 5 countries covering a cumulated length of 70 km. And previously Director of Operations

of a 400km-toll road concession in France, having then under his direct responsibility one of the longest urban tunnel in France.



Martijn VAN GILS

Martijn works road agencies who are defining and implementing a transportation strategy and guides the delivery process. He is a specialist in mobility, safety, contract and project management. He obtained his Master of Science in Systems Engineering and Policy analysis at Delft University of Technology in 1999. He has gained experience on the contractor side, as well as the government side.

Schedule

Course schedule: 07:00 AM– 09:00 AM US EST - 12:00 – 14:00 GMT

Wednesday, September 16	<ul style="list-style-type: none">• General aspects and sources of risk in tunnels• Experiences from past tunnel incidents / what we have learned• International regulation and recommendations• Safety approach for road tunnels• Risk assessments• Elements of tunnel design & tunnel operation
Thursday, September 17	<ul style="list-style-type: none">• Ventilation concepts & strategies• Safety functions and equipment - firefighting systems• Emergency facilities - evacuation, emergency service access• Electrical, illumination, ITS & supervision systems• Equipment maintenance practices
Monday, September 21	<ul style="list-style-type: none">• Safety inspection methods & criteria• Main key players - roles / responsibilities• HR: Hiring & training• User behavior
Tuesday, September 22	<ul style="list-style-type: none">• Degraded modes• Safety documentation• Incidents & Crisis Management• Innovations in road tunnel management

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Better Roads. Better World.



International Road Federation

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