Road Safety Engineering

25 January – 5 February 2027
Amsterdam (Netherlands)

UK Traininig
PARTNER



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Ref: 3254430_310137 **Date:** 25 January – 5 February 2027 **Location:** Amsterdam (Netherlands) **Fees:** 10600 GBP

Introduction

This Advanced Road Safety Engineering and Audit Program is designed to provide professionals with comprehensive knowledge and skills in road safety engineering. The course emphasizes the importance of understanding road safety rules, conducting road safety audits, and utilizing safety engineering principles to enhance road design and infrastructure. Through practical exercises and case studies, participants will learn the key components of road safety design engineering and explore innovative safety engineering technologies for preventing accidents and promoting safer road environments.

This program is ideal for road safety professionals, road engineers, and anyone involved in traffic management or infrastructure development. Participants will gain hands-on experience in analyzing collision data, developing safety measures, and conducting professional road safety audits to ensure the safety and sustainability of transportation systems.

Course Objectives

By the end of this course, participants will:

- Understand the fundamentals of road safety engineering: Learn key concepts such as "What is safety engineering?" and its application in road infrastructure.
- Analyze collision causes: Identify factors contributing to road collisions, including human, environmental, and design issues.
- Enhance road design safety: Explore road engineering techniques to improve safety and reduce accidents.
- Master road safety audits: Learn how to conduct road safety audits and understand the benefits of road safety audits in evaluating infrastructure.
- Leverage safety engineering technology: Explore the latest tools and technologies to enhance road safety.
- Apply economic assessments: Evaluate the cost-effectiveness of road safety measures and implement practical solutions.
- Understand regulatory frameworks: Learn the legal duties and compliance requirements for road safety professionals.



Course Outlines

Day 1: Introduction to Road Safety Engineering

- What is safety engineering? Overview of road safety engineering and its significance.
- Key terminology: Understanding road engineering and safety concepts.
- Roles and responsibilities of a road safety professional.

Day 2: Factors Behind Road Collisions

- Human factors affecting road safety.
- Environmental and road design factors influencing collisions.
- Case studies analyzing collision dynamics and preventive measures.

Day 3: Enhancing Road Safety through Design

- Examining how collisions happen and strategies to prevent them.
- Benefits of road safety audits in road safety management.
- Practical solutions for improving road safety through innovative designs.

Day 4: Principles of Road Safety Engineering

- Safety engineering principles: Applying theory to practice.
- Incorporating safety into road safety design engineering.
- Best practices for creating safer intersections, pedestrian crossings, and cyclist pathways.

Day 5: Legal and Regulatory Frameworks

- Overview of road safety rules and legal obligations.
- Responsibilities of road safety professionals in accident reporting.
- Regulatory compliance for road safety projects.

Day 6: Collision Data Collection and Analysis

- Methods for gathering accurate collision data.
- Techniques for evaluating and ensuring data quality.
- Using data for monitoring road safety and identifying areas of improvement.

Day 7: Collision Investigations and Economic Assessments

- Conducting in-depth collision investigations.
- Calculating collision rates and comparing them to industry benchmarks.
- Economic evaluation of safety measures and treatments.



Day 8: Implementing Road Safety Measures

- Designing and implementing speed reduction and traffic control measures.
- Optimizing road signs, markings, and lighting for improved safety.
- Developing road safety engineering solutions for critical areas.

Day 9: Skidding Resistance and Safety Innovations

- Understanding the importance of skidding resistance in road safety.
- Designing and maintaining skid-resistant surfaces.
- Reviewing successful road safety schemes and their outcomes.

Day 10: Conducting Professional Road Safety Audits

- Introduction to road safety audits and their objectives.
- Step-by-step guide to conducting audits for road infrastructure.
- Exploring challenges and solutions through real-world case studies.
- Certification preparation: Becoming a qualified road safety auditor.

Why Attend This Course: Wins & Losses!

- Gain expertise in road safety engineering to reduce accidents and save lives.
- Master the road safety audit process to evaluate and enhance road designs.
- Enhance your career as a certified road safety professional or road safety engineer.
- Learn practical strategies for road safety design engineering to improve road infrastructure.
- Understand the importance of safety engineering and apply cutting-edge safety engineering technologies.
- Explore economic and practical solutions for effective road safety measures.

Conclusion

This course offers a unique opportunity to develop critical skills in road safety engineering and safety engineering technology. Participants will gain the expertise needed to ensure safer road environments through effective design, audits, and regulatory compliance. By mastering the principles of road safety engineering, you'll be equipped to address challenges and implement impactful solutions in your role as a road safety professional.

Join us today to enhance your skills and contribute to building safer roads for everyone!

