BLACKBIRD
FOR TRAINING

Road Safety Engineering

London (UK)

1 - 12 September 2025

UK Traininig
PARTNER

Road Safety Engineering

Code: HS28 From: 1 - 12 September 2025 City: London (UK) Fees: 8600 Pound

Introduction

This intensive course is designed to provide comprehensive knowledge and practical skills in road safety engineering. Participants will gain insights into the causes and prevention of road collisions, methods for improving road safety, and the principles of road safety audits. The course combines theoretical knowledge with practical applications, making it suitable for professionals involved in road safety management and engineering.

Objectives

- Understand the fundamental concepts and terminology in road safety engineering.
- Analyze factors contributing to road collisions and casualties.
- Learn approaches to improve road safety through engineering and design.
- Develop skills in collecting and analyzing road collision data.
- Conduct collision investigations and evaluate safety measures.
- Apply economic assessments to proposed road safety treatments.
- Gain knowledge in road safety audits and the qualifications required.

Course Outline

Day 1

Introduction and Terminology

- Introduction to Road Safety Engineering
- Key Terminology and Definitions
- Overview of Road Safety Challenges

Day 2

Factors Involved in Collisions and Casualties

- Understanding Collision Dynamics
- Human Factors in Collisions
- Environmental and Road Design Factors

Day 3

How Collisions Happen and Approaches to Improving Road Safety

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- Mechanisms of Collisions
- Preventive Strategies and Measures
- Case Studies on Collision Prevention

Day 4

Principles of Road Safety Engineering

- Core Principles and Concepts
- Role of Engineering in Road Safety
- Integrating Safety into Road Design

Day 5

Road Safety Issues and Legal Duties

- Current Road Safety Issues
- Legal Obligations for Reporting Accidents
- Regulatory Framework and Compliance

Day 6

Collecting and Analyzing Collision Data

- Methods for Data Collection
- Data Sources and Quality
- Using Data for Collision Investigation and Monitoring

Day 7

Collision Investigation and Economic Assessment

- Steps in Collision Investigation
- Calculating Collision Rates and Norms
- Economic Analysis of Safety Measures

Day 8

Road Safety Measures and Treatments

- Speed Reduction Techniques
- Effective Use of Signs and Road Markings
- Safety Considerations for Junctions, Bends, Pedestrians, and Cyclists

Day 9

Skidding Resistance and Safety Scheme Examples

- Importance of Skidding Resistance
- Design and Maintenance of Skid-Resistant Surfaces

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- Review of Successful Road Safety Schemes

Day 10

Road Safety Audits

- Introduction to Road Safety Audits
- Conducting Effective Audits
- Becoming a Qualified Road Safety Auditor
- Examples and Case Studies of Audit Issues

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