Traffic Calming Measures - Design and Evaluation Training Course

Professional Development Training Course Outline

Category	Traffic Management & Road Safety	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Traffic congestion, high-speed roadways, and rising urban accidents demand innovative strategies to ensure road safety and enhance urban mobility. Traffic calming measures have emerged as a pivotal solution to reduce vehicular speeds, improve pedestrian safety, and create more livable cities. Traffic Calming Measures - Design and Evaluation Training Course equips transportation engineers, urban planners, and policymakers with the latest techniques, tools, and evaluation frameworks to implement sustainable traffic solutions effectively. Participants will gain hands-on knowledge of modern design practices, data-driven evaluation, and case study analysis to improve traffic flow while prioritizing safety and community wellbeing.

The course emphasizes practical implementation, policy integration, and advanced assessment methods, focusing on the most effective interventions such as speed humps, chicanes, curb extensions, and pedestrian zones. Through interactive sessions, real-world case studies, and data-driven simulations, participants will learn to identify problem areas, design context-sensitive traffic calming solutions, and measure their impacts on road safety, environmental sustainability, and urban livability. By the end of this course, participants will possess the skills to plan, design, and evaluate traffic calming measures with measurable outcomes and modern best practices.

Programme Curriculum

Traffic Calming Measures - Design and Evaluation Training Course

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Course Objectives

1. Understand the fundamentals of traffic calming principles and urban mobility.
2. Identify key road safety hazards and risk assessment techniques.
3. Analyze traffic flow patterns using data-driven evaluation methods.
4. Learn modern traffic calming designs such as speed humps, chicanes, and roundabouts.
5. Apply context-sensitive solutions in urban and suburban settings.
6. Evaluate the impact of traffic calming measures on road safety and accidents.
7. Integrate pedestrian-friendly and bicycle-friendly designs into traffic planning.
8. Implement cost-effective and sustainable urban traffic solutions.
9. Utilize GIS and simulation tools for traffic analysis and design validation.
10. Review global best practices and case studies of successful traffic calming projects.
11. Develop strategies for community engagement and stakeholder collaboration.
12. Monitor and measure performance indicators and post-implementation evaluation.
13. Enhance skills in policy formulation, urban design integration, and smart mobility solutions.

Target Audience

1. Urban planners and city designers
2. Transportation engineers
3. Road safety auditors
4. Traffic management authorities
5. Policy makers and government officials
6. Civil engineering professionals
7. Academics and researchers in transportation
8. Community development and urban mobility consultants

Course Modules

Module 1: Introduction to Traffic Calming

- Fundamentals and objectives of traffic calming
- Importance of speed reduction and pedestrian safety

- Types of traffic calming measures
- Urban mobility challenges and solutions
- Case Study: Amsterdam’s neighborhood traffic calming program

Module 2: Traffic Flow and Safety Analysis

- Methods for traffic data collection
- Accident analysis and hotspot identification
- Speed surveys and volume studies
- Evaluating pedestrian and cyclist safety
- Case Study: Traffic flow optimization in Singapore

Module 3: Design of Vertical Traffic Calming Measures

- Speed humps, tables, and ramps
- Raised intersections and pedestrian crossings
- Design standards and dimensions
- Material selection and cost considerations
- Case Study: London’s residential speed hump implementation

Module 4: Design of Horizontal Traffic Calming Measures

- Chicanes, road narrowing, and curb extensions
- Roundabouts and mini-circles
- Lane reduction strategies
- Impact on traffic behavior and safety
- Case Study: Vancouver’s horizontal traffic calming strategies

Module 5: Streetscape and Environmental Integration

- Landscaping and aesthetic enhancements
- Pedestrian zones and shared streets
- Noise and air quality considerations
- Community-centric design approaches
- Case Study: Copenhagen’s pedestrianized city streets

Module 6: Evaluation and Monitoring of Traffic Calming Measures

- Key performance indicators for evaluation
- Accident and speed reduction analysis
- Public feedback and perception surveys
- Before-and-after studies
- Case Study: Melbourne’s traffic calming evaluation framework

Module 7: Policy, Governance, and Stakeholder Engagement

- Urban traffic policy frameworks
- Collaboration with local authorities
- Public awareness campaigns
- Legal and regulatory considerations
- Case Study: New York City’s Vision Zero initiative

Module 8: Emerging Trends and Smart Traffic Calming Solutions

- Intelligent traffic management systems
- Smart sensors and IoT integration
- Data-driven predictive modeling
- Sustainable and adaptive urban designs
- Case Study: Singapore's smart traffic calming pilot project

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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