

# An Introduction to Highway Design & Construction

## Two-day Course



### Overview

Continuing cut-backs and restraint in funding of highway construction and maintenance has led to even greater need for practitioners to gain an appreciation and understanding of cost-effective highway design, specification and implementation. The principles of highway engineering apply not only to the construction of major new road schemes, but also to smaller improvements, reconstruction and on-going road maintenance.

Design approaches are related to DMRB, also to the Manual for Streets.

This two-day course will consider the roles and responsibilities of highway authorities and consultants. Additionally it will guide participants through highway design and construction of new or remodelled roads.

### Outcomes

On completion of this course, delegates will have:

- An understanding of current legislation and standards relating to day-to-day management and maintenance of public highways.
- An awareness of current design guidance concerning capacity and layout of Links & Junctions based on DMRB.
- An overview of Tender & Contract procedures, Private Finance Initiative & Partnerships.

- An understanding of the structural design and construction of road pavements and supporting foundations, based on DMRB. As well as an awareness of the options and benefits of recycling road materials.
- An awareness of the current requirements of CDM, and Health & Safety @ Work and the Safety Audit Procedure based on DMRB.

### Target Audience

The course is particularly appropriate for recent recruits to consultancies, developers and highway authorities working in design and maintenance departments, also to engineering graduates and technicians working with highway engineers. As well as experienced engineers and technicians requiring an update of current legislation, processes and technology.

### To Book

Please fill in the attached booking form and return to:

The Events Team  
PTRC Education  
and Research Services Ltd  
22 Greencoat Place  
London, SW1P 1PR

**T:** 020 7348 1970  
**F:** 020 7348 1989  
**E:** [info@ptrc-training.co.uk](mailto:info@ptrc-training.co.uk)

### Topics Covered

- National & Local Highway Networks: Hierarchy & Classification
- Statutory Procedures
- Duty & Procedures for Managing & Maintaining Public Highways including an overview of the causes and cures of potholed road surfaces (based on CoP : "Well Maintained Highways.")
- Capacity of Links & Junctions (based on DMRB)
- Layout: Design Standards for Links & Junctions (based on DMRB)
- Pavement Construction:
  - Earthworks & Foundations
  - Capping & Sub-Bases
  - Structural Layers
- Pavement Structure: Thickness Design and Strengthening Overlays (Based on DMRB)
- Highway Drainage: Surface & subsoil systems, SUDS & pavement edge & drainage details
- Overview of Safety Audits (based on DMRB)
- Tender & Contract Procedure: Documents, Specification, Quantities & Working Drawings
- Private Finance Initiative/DBFO Contracts, Best Value & Partnerships
- CDM Regulations, Health & Safety & the respective responsibilities
- Recycling Construction & Secondary Materials



PTRC is a company within  
The Chartered Institute of  
Logistics and Transport

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### Booking Form

Course Date		Course Location
Title	Forename	Surname
Position		Department
Organisation		
Address		
		Postcode
Email		
Please state any special dietary or access requirements		
How did you hear about this course		

### Attendance Fees

Please tick as appropriate:

Standard rate       **CLT/ Local Authority/ Charity rate**

### Method of Payment

Credit Card (Mastercard and Visa only)

Card No.

Expiry Date	CSV Code	Cardholder's Name
Cardholder's Address		
		Postcode
Invoice	Purchase Order Number	

Please attach a copy of your purchase order made payable to PTRC

Telephone
Email
Cheque enclosed for £ _____ made payable to PTRC
Invoice Address (if different from delegate address listed above or the attached PO)
Postcode

### Signature of Authorisation

I have read and accept the terms and conditions

Signature \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_

**Barclays PLC** Sort Code: 20-45-77 Account No: 50536466

Please return to: The Events Team, PTRC Education & Research, 22 Greencoat Place, London, SW1P 1PR  
T: 020 7348 1970 F: 020 7348 1989 E: info@ptrc-training.co.uk

### Terms and Conditions

#### 1 Registration Form

Applications should be made on the official registration form. Photocopies are accepted. One form should be completed for each delegate attending an event. It is important that all sections are completed legibly. Delegates are advised to retain a copy of the registration form for reference before sending.

#### 2 Fees

Fees include attendance at lectures, lecture notes, lunch and all refreshments unless otherwise indicated.

Fees do not include overnight accommodation, breakfast and evening meals unless stated otherwise indicated.

#### 3 Acknowledgement

Receipt of a registration form will be acknowledged by email, delegates will be sent an invoice and an email of acknowledgement. Joining instructions, including a map, will be sent to each delegate by email approximately two weeks before the start of the event.

#### 4 Payment

Unless otherwise stated payment in full must be made at the time of booking. All prices are exclusive of VAT, unless stated otherwise.

#### 5 Cancellation

All cancellations, or alterations to a booking, must be received in writing. To avoid cancellation penalties, substitutes will be accepted at any time, if notified in writing and in advance of the event. Adjustments in fees will be made if there is any change in fee category. Cancellations received in writing up to 14 days before an event will be subject to an administration fee of £75 + VAT or the event delegate fee, whichever is the lower. Cancellation within 14 days of the event date or a 'no show', will be liable for the full fee.

#### 6 Disclaimer

PTRC reserves the right to vary the programme and to cancel an event if it is under subscribed or for any other reason. In the event of cancellation, where reasonably possible PTRC aims to give delegates at least two weeks' notice and the fee will be refunded in full. PTRC will not be held liable for any pre-booked travel, accommodation or similar costs incurred under any circumstances whatsoever.

#### 7 Data Protection

Details will be held on a database in accordance with the 1998 Data Protection Act. Information will be used for internal marketing purposes only and will not be shared with any external organisations.

VAT Registration No. GB 241 5818 68



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The Chartered Institute of  
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