



An eighteen week evening programme
organised by Training for Transportation Professionals

An Introduction to Traffic Engineering and Transport Planning

Birmingham

29 November 2010 - 18 April 2011



Introduction

There is wide acknowledgement among public and private sector employers in the West Midlands of the need to improve and encourage training and development for transport practitioners, particularly new entrants to the profession and those from non-traditional backgrounds.

Many employers also recognise that even those entering the profession with appropriate first or second degrees may not immediately be able to undertake the practical and challenging tasks necessary to contribute to the delivery of transport schemes, especially if they are innovative and controversial.

Although we are entering an uncertain time of budgetary constraints, it is important for the future of the profession that we do not lose sight of the importance of a workforce with as broad a knowledge and experience of all aspects of Traffic Engineering and Transport Planning. This will stand the profession in good stead when the market recovers and investment returns to transport projects. The recent "boom" has resulted in many staff finding themselves in particular "niches" - such as bus priority, traffic calming, travel plans, cycle planning, for example. This programme of evening classes gives staff an early opportunity to experience the wide range of skills necessary to become a well-rounded practitioner. The programme can also be used by more senior managers to update their knowledge and gain more understanding of the work requirements of colleagues.

Now in its eighth year, the West Midlands programme is offered as a series of 18 lectures, providing an introduction to the different components of transport planning and traffic engineering. The course is recognised by the Transport Planning Society and the Chartered Institute of Highways and Transportation. Delegates who complete the programme may then like to consider enrolling on the three-year day-release Edinburgh Napier University MSc in Transport Planning and Engineering which is delivered in the West Midlands.

Structure of the Programme

The programme will consist of lectures delivered by local transport practitioners who are experts in their particular field. They will be drawn from consultancies, academia, central government and local authorities. Accompanying lecture notes will be provided and there will be plenty of time available for questions and discussion.

As lecturers are giving their time freely, from time to time it may be necessary to reorganise a lecture at short notice.

Certificate of Attendance

Delegates attending a minimum of 90% of the lectures will be awarded a certificate acknowledging successful completion of the course. There are no examinations.

Venue and Time Information

The evening course will be held in a central Birmingham location. Full details will be supplied on confirmation of bookings.

Cost

£400 +VAT for the 18 week programme



Programme



Introduction

Aims and objectives of the course programme

Transport Surveys

Roadside/household interviews
Registration plate/journey time surveys
Public transport surveys
Vehicle counts



Traffic Flow Speed and Capacity

Definitions/measuring flow and speed
Trends variation and composition
Capacity and measurement
Flow speed relationships and capacity



Geometric Design of Highways

References, vehicle performance and curves
Horizontal curvature and superelevation
Transition curves, widening of traffic lanes
Visibility, gradient and vertical curves



Traffic Signals and UTMC

Justification of signals, types of signals
Capacity and saturation flows
Delays, optimum settings, capacity
Design techniques and programmes
Co-ordination of signals and systems



Local Transport Plans

Sources of funding, roles
Responsibilities and powers
Objectives and content
Annual progress reports



Public Transport - non road

Characteristics of railways/light rail
Cost structures

‘Although we are entering an uncertain time of budgetary constraints, it is important for the future of the profession that we do not lose sight of the importance of a workforce with as broad a knowledge and experience of all aspects of Traffic Engineering and Transport Planning.’



Public transport - roads



Transport Economics and Appraisal

Introduction to NATA and the appraisal process

Cost-benefit analysis

The Framework Appraisal



Transport Modelling 1

Role and relevance of transport modelling

Software, data requirements

Overview of four-stage transport models



Transport Assessments and Travel Plans

Planning and policy framework

Transport assessments and travel plan contents



Transport Modelling 2

Trip generation and distribution

Traffic assignment



Managing Demand

Definition of “soft measures”, travel awareness

Travel plans/school travel plans, personalised travel planning

Congestion charging, workplace charging levy



Priority Junctions and Roundabouts

Channelisation, acceleration and deceleration



Pedestrians and Cyclists

Strategies for walking

Developing pedestrian networks

Facilities for the disabled, pedestrian priority areas

Cycling networks and strategies

Signing and road marks

Facilities for cyclists on- and off-road



Traffic Calming and Control of Speed

Objectives, measures and design

Speed limits, 20 mph zones and enforcement



Accidents and Safety

General statistics, recording of accidents, accident analysis



Traffic Management

Scope of traffic management

One-way schemes, turning traffic

Tidal flow systems and other techniques



Consultation Involving the Public

Statutory consultation procedures

Non-statutory public involvement

Techniques for encouraging public involvement

To Apply for a Place

Please complete the booking form and return it to:

Training for Transportation Professionals

Forrester House,

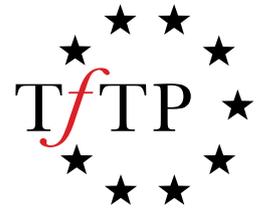
Doctors Lane,

Henley in Arden,

B95 5AW

Tel: 07831 663653

E-mail: admin@tftp-training.co.uk



18 week programme of evening classes

An Introduction to Traffic Engineering and Transport Planning

I would like to book a total of _____ place(s) for the Evening Course at £400 plus VAT per student

Student Details

Please state the names and e-mail addresses of the student(s) attending:

Student Name	E-mail address
_____	_____
_____	_____
_____	_____
_____	_____

Invoice details

Please supply the following information for the invoice:

Name _____

Address _____

Tel _____

E-mail _____

Purchase Order number: _____

Please return this form to:

Training for Transportation Professionals,
 Forrester House,
 Doctors Lane,
 Henley in Arden,
 B95 5AW

Tel: 07831 663653
Fax: 01564 793983
E-mail: admin@tftp-training.co.uk

VAT Registration Number: 992 6074 85

Terms & Conditions

1. Registration Form

Applications should be made on the official registration form. Photocopies are acceptable. One form should be completed for each organisation, multiple delegates can be put on one form. Delegates are advised to keep a copy of the registration form for reference before sending.

2. Fees

Fees are quoted for the full course.

3. Acknowledgement

On receipt of registration form, delegates will be sent an invoice and a letter of acknowledgement. Joining instructions, including a map and timetable, will be sent to each delegate approximately 2 weeks before the start of the event.

4. Cancellations

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. Cancellations received in writing up to 14 days before an event will be subject to an administration fee of £50. Cancellation of a confirmed booking after this date, including non-arrivals at an event, will be liable for the full fee.

5. Disclaimer

TfTP 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 a cancellation, TfTP aims to give delegates at least two weeks notice and the fee will be refunded in full. TfTP cannot be held responsible for any prebooked travel or accommodation costs.

6. 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.