

BTEC

Transport Planning and Traffic Management

Course Overview

A four-day course which aims to equip an engineering student, technician engineer, engineering technician or traffic trainee with sufficient knowledge to be a useful member of a traffic management team and to understand how such a team operates.

The course is taught as four separate modules, with one day of classroom-based tuition for each module. At the end of each module an assignment will be set. This should be completed by the student and submitted by the start of the next module. There will be around six weeks between the modules, which allow students sufficient time to complete the assignment and hand it in before the next module commences.

Aims and Objectives

The course will provide students with a comprehensive introduction to transport planning and traffic management and will give students the confidence to do this type of work once back in the working environment. The course is valuable to students new to the subject matter or those with practical experience but lack the academic background in the subject area. The qualification is a well-respected demonstration of competence in this area of work.

Topics Covered

The module breakdowns are as follows (including more details overleaf):

| | |
|-----------------|--|
| Module 1 | Transport Administration, Traffic & Growth, Environmental Aspects and Sustainable Transport |
| Module 2 | Surveys, Analysis and Presentation, Traffic Modelling, Accidents, Design - Roads, Signal and Junctions |
| Module 3 | Parking, Environmental Improvements, Other Traffic Management Aspects |
| Module 4 | Public Consultation, Legal Aspects and Traffic Regulation Orders, Sustainable Transport Examples |

Module 1

Transport Administration

- EU, Central and Local Government
- Highway Authorities
- Public Transport
- Formal Plans

Traffic and Growth

- Distribution and Growth of Traffic
- Future trends
- Traffic generation



Environmental Aspects

- Safety
- Pollution
- Local air quality
- Intrusion
- Noise and vibration

Sustainable Transport

- A sustainable transport strategy
- Walking strategy, Cycling strategy, Public transport strategy, Parking strategy
- Travel planning
- Green tourism

Module 2

Surveys, Analysis and Presentation

- Vehicle counting methods
- Special traffic counts
- Analysis and presentation of traffic flow data
- Parking surveys
- Origin and destination surveys
- Home interviews
- Health and safety

Accidents

- Road accident casualty saving targets
- The road environment as a contributory factor in accidents
- Collecting road accident information
- Identifying the problem areas
- Accident analysis
- Remedial measures
- Skid resistance
- Implementation
- Dealing with speed
- Before and after studies
- Statistical considerations
- Aftercare
- Safety audit Molasses scheme information database

Traffic Modelling

- The aims of transport studies
- Tactical transport model
- Traffic generation
- Surveys
- Data analysis
- Traffic assignment
- Model output and application

Design - Roads, Signal and Junctions

- Roads
- Priority junctions
- Traffic signals
- Roundabouts
- Pedestrians



+44 (0)24 7669 0900



courses@tmsconsultancy.co.uk

www.tmsconsultancy.co.uk

Module 3

Parking

- Parking policies, parking demand, parking studies, parking strategy
- New development parking standards
- Residents' parking schemes
- On-street parking control and enforcement
- Off-street car parks
- Park and ride
- Coach and Lorry parking
- Motorcycle and cycle parking
- Special Events
- Bus Stop design

Environmental Improvements

- Town and city centres
- Central residential areas
- Outer residential areas
- Villages
- Traffic calming
- Home zones
- Quiet roads
- Design and consultation
- Implementation aspects

Other Traffic Management Aspects

- Road markings
- Traffic signs
- Improving flow/capacity
- Speed Limits
- Lorry controls

Module 4

Public Consultation

- Methods of communication
- Consultation
- Dealing with public objections
- Improving relations

Legal Aspects and Traffic Regulation Orders

- Legislation relating to highways and traffic
- Traffic Regulation Orders
- TRO procedures
- Sample orders
- Decriminalised parking
- Records

Sustainable Transport Examples

- Safer Routes to School
- The ELGAR Project
- Quality bus partnerships
- High Occupancy Vehicle lanes
- Congestion tolling



Certification

This course offers a BTEC Level 4 Certificate of Achievement for students through completion of a series of assignments that will be assessed by TMS and Bath College. This course can also contribute to the achievement of a Professional Diploma in Highway Engineering by further study of Highways and Transportation topics from the TMS and Bath College training programme.

Students who attend the course and do not successfully complete the assignments will receive a certificate of attendance providing all four modules / course days are attended. Students are not permitted to attend individual modules: *they must attend all four dates advertised.*

A joint TMS/Bath College Certificate/Diploma will also be issued to students completing the course.

In-House Training

Please note this is now only available as an in-house training course, delivered at your offices or at a suitable venue.

In-house training can often work out more cost effective where you have several members of staff you would like to be trained at any one time. The maximum number of delegates we can train on this course is limited to 16.

If you would like a quotation or further information regarding this training, please contact us on the details below.



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