Online Advanced Traffic Signal Design for ITS Ireland NON MEMBERS
Wednesday 10th November 2021
Online

Duration: 2 days
Price: ?600 (exc. VAT)

Overview
This special 2 day online version of the Advanced Traffic Signal Design course will typically suit anyone who is involved with traffic signal design and would like to further their skills in this area. The course uses LinSig which is accessed via a virtual training lab and delegates do not need to have LinSig installed on their PC to participate. More information is available under 'Course Content'.

Who Should Attend
Anyone who is involved with traffic signal design and would like to consolidate and expand their experience in signal design.

Pre-requisites
Attendance of the Introduction to Traffic Signals JCT course or equivalent experience. Ideally delegates will have also previously attended a LinSig Computer Workshop however this is not totally essential provided delegates are familiar with LinSig.

Course Content
This is a two day course which looks at the more intricate design processes available to engineers. The course will highlight the design techniques available to squeeze extra capacity and efficiency from junctions using signalling methods and geometric configurations. The course uses a combination of lectures and practical workshops using manual and computer based techniques. In particular, some of the basic and advanced features in LinSig 3 will be used to teach advanced design techniques.

The course will include phase based design, interstage design, staging strategies and a look at more complex issues such as ripple changing, parallel stage streaming and the logic involved in controller stage change decisions, including an introduction to Boolean Logic. Further design techniques will be considered which involve the use of demand dependency and the importance of stage choice in efficient junction design. Much emphasis is placed on the ordinary practical aspects of signal control as routinely applied by experienced practitioners. There will also be an introduction to the design and optimisation of signalled roundabouts which is taught in greater depth on the JCT Signalled Roundabout Design course.

The course content includes the following:

- Detection, Control Strategies & Mode Priority
- Designing for Capacity, Efficiency and Safety
- Designing for pedestrians, cyclists and Public Service Vehicles
- Signalled Roundabouts
- Application of Phase Delays
- Interstage Design
- Improving Junction Performance: Stages, Stage Order, Intergreens, Ripple Changing, minimising wasted time,

Dummy Phases, Pedestrian clearances, Parallel/ Serial stage streaming, Event and time based CLF plans, UTC, SCOOT and a consideration of international variants such as SCATS.

- Phase Based Design

Accreditation

All JCT courses are ?Approved? or are pending ?Approval? by the Institute of Highway Engineers and attendance is therefore recognised by the IHE and many other bodies as evidence of Continual Professional Development (CPD).

Courses are managed under a ISO9001 Quality Management System.

Additional Information

This course if offered on a Business to Business basis to people residing in Ireland and employed by an Irish Company registered for VAT. As such no UK VAT is charged but you may be liable to account for VAT locally under the "Reverse Charge" rules.

Due to potential delays with UK / Ireland Customs Training materials for this course will be provided electronically.

Dates & Times

This course will run from Wednesday 10th November 2021 and last for 2 days.

The following schedule should apply although all times are provisional and subject to change as required on the day:

Day 1: 09:00 - 17:00.

Day 2: 09:00 - 17:00.

Course Venue
Venue: Online

Location: Online

Course Tutors

Depending upon scheduling constraints, our course tutors will sometimes split tuition between them or teach a given course in its entirety whilst the other is unavailable. Please contact us directly if you need more specific detail about who will be teaching a specific course.

Course tutor: John Nightingale MSc(Eng), CEng FIHE MCIHT

The information presented here is kept as accurate and up to date as possible, nevertheless, this document is static and cannot be updated if any changes to the course arrangements are made. We make every effort to inform our delegates if we have to make any cancellations and if any changes are made to the venue or schedule. We also advise all delegates to check the website or contact us directly to confirm course details a few days before the course starts.