

Advanced Traffic Signal Design

Tuesday 13th October 2020

JCT Offices, Lincoln

Duration: 3 days

Price: £710 (exc. VAT)

Overview

This course would typically suit anyone who is involved with traffic signal design and would like to further their skills in this area. 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.

Course Content

This is a three 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
- Design Projects using a combination of manual and



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LinSig House,
Deepdale Enterprise Park,
Nettleham, Lincoln
LN2 2LL

tel: +44 (0)1522 751010
fax +44 (0)1522 751188

e: courses@jctconsultancy.co.uk
w: www.jctconsultancy.co.uk

computer based techniques

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.

Dates & Times

This course will run from Tuesday 13th October 2020 and last for 3 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.

Day 3: 09:00 - 17:00.

Course Venue

Venue: JCT Offices, Lincoln

Location: Lincoln

Venue website: www.jctconsultancy.co.uk

Address of venue: JCT Consultancy Ltd.

LinSig House

Deepdale Enterprise Park

Nettleham

Lincoln

Venue postcode: LN2 2LL

How to get there:

Office Directions by Road:

Description of venue:

New purpose built offices and training facility, just off the A46, 2 miles to the NE of Lincoln.

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.



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