



SOUTH AFRICAN ROAD FEDERATION

presents a 2 day on

Traffic Signal Design and AutoJ Intersection Optimization

PRESENTER

Dr John Sampson, Pr. Eng

**Monday 4th – Tuesday 5th May
2020**

CAPE TOWN

**Delegates can claim 1 or 2 ECSA
CPD points, depending on the
number of days they attend.**

Course Description **TRAFFIC SIGNAL DESIGN (RTSM, day 1)**

Delegates attending this course will learn about the critical importance of designing traffic signal installations to meet the requirements of Volume 3 of the South African Road Traffic Signs Manual. Along with the Manual, the Road Traffic Act and Regulations prescribe standards and requirements which can result in severe legal and personal consequences for authorities and individuals if these are not met. The first day will therefore deal with how the signal faces and poles must appear, both in general and if Bus Rapid Transit (BRT) lanes are present, and how they should be managed and maintained. In the afternoon, delegates will be given a typical intersection to design.

This course will provide delegates with all the tools necessary to design and implement safe and legal traffic signals in the field.

INTERSECTION CONTROL DEVICE OPTIMIZATION (AutoJ, day 2)

This course starts with an introduction to priority, roundabout and traffic signal intersection control devices.

How the best type of control, depending on the geometry and volume at the intersection, can be determined will be demonstrated. Current international best traffic engineering practices in the calculation of delay, capacity, queue length and level of service will then be discussed. The way in which these measures of effectiveness determine how the intersection will perform, depending on which of twenty-eight priority and traffic signal phasing options is selected, will be explained via a demonstration of the software program AutoJ. In the afternoon delegates are invited to bring actual traffic volumes at any intersection to demonstrate the ease of using AutoJ.

Co-ordination or synchronization of traffic signals will also be discussed.

The course will be of value to anybody undertaking or assessing traffic impact assessments, designing intersections of any type, designing traffic signal layout and timings or wanting to know about how intersections, including Non-Motorized Transport and BRT intersections, should be operated.

The course caters for all levels of attendees, including students, traffic officers, technicians and qualified engineers with years of experience.

Should you only wish to attend one of the two days, enquire with SARF about that option.

Cost per delegate for one day only. (For delegates that attended the two day course before but want a refresher)

SARF Sponsor members	R3 175
SARF Members	R 3 510
SAICE Members	R3 623
Non-Members	R 3 898

Cost per delegate for two days

SARF Sponsor members	R6 348
SARF Members	R7 063
SAICE Members	R7 319
Non-Members	R7 742

**Exact venue will be confirmed when proof
of payment is received by SARF**

Register online at: <http://www.sarf.org.za>

Terms and conditions apply

SARF Contact: Sybul/ Tshidi

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