



ROAD FEDERATION

presents a 2 day course

dealing with

TRAFFIC SIGNAL DESIGN

in

CAPE TOWN

8 – 9 MARCH 2011

APPLICATION FORM

and

PROGRAMME

CPD Validation
No.SAICEtr09/00439/12
2 Credits

COURSE DESCRIPTION

This course on

TRAFFIC SIGNAL DESIGN

will address the design of traffic signals and signal controlled intersections with specific reference to the New Volume 3 of the South African Road Traffic Signs Manual (SARTSM). Important information on the background to the development of the manual will be provided while most important aspects of the manual will be covered during the course.

The course will address aspects such as the following:

- Legal aspects of traffic signals – Road Traffic Act and Regulations.
- Management of risks involved with signals.
- Installation and removal of traffic signals. Queue length warrants for the installation of traffic signals. Measurement of queue lengths.
- Design and layout of traffic signal faces including pedestrian signals. Important requirements. Traffic signal layouts at intersections.
- Phasing and timing of traffic signals.
- Vehicle actuated control.
- Area traffic control.
- Maintenance and management of traffic signals.

The course will provide a good overview of all aspects of traffic signals and will be a good introduction for the novice as well as a refresher for the more experienced engineer. A practical hands-on approach will be followed in all presentations and the course will benefit engineers at all levels of government, consultants, traffic officers and other people dealing regularly with traffic signals.

The course will be presented by Dr John Sampson and Dr Christo van As, two of the authors of Volume 3 of SARTSM.

DRAFT PROGRAMME

DAY 1

08:00-08:30 Registration

08:30-10:30 Session 1

- Intersection Control
- Important Aspects of Volume 3
- Legal Aspects of Traffic Signals
- Risk Management

10:30-10:50 Tea

10:50-12:30 Session 2

- Installation of new traffic signals
- Removal Procedures
- Traffic Signal Warrants (Queue length warrants)

12:30-13:30 Lunch

13:30-15:30 Session 3

- Design and Layout of signal faces

15:30-15:50 Tea

15:50-17:00 Session 4

- Pedestrian signals
- Traffic Signal layout

DAY 2

08:00-08:30 Tea & Coffee

08:30-10:30 Session 5

- Phasing and Timing of Traffic Signals
- Practical Examples

10:30-10:50 Tea

10:50-12:30 Session 6

- Vehicle Actuated Control
- Area Traffic Control

12:30-13:30 Lunch

13:30-15:30 Session 7

- Maintenance of Traffic signals
- Management Issues

15:30-15:50 Tea

15:50-17:00 Session 8

- Test
- Closure

