



## SOUTH AFRICAN ROAD FEDERATION

will present a two-day course on

### **Bridge and Culvert Inspector Visual Assessments and Introduction to Bridge Management (COTO Structures Subcommittee Approved Course)**

#### **PRESENTERS**

**Dr. Paul Nordengen – HVTech Africa  
Michael Roux – CSIR Smart Mobility  
Peter Fenton - eThekweni Municipality**

**Monday 30<sup>th</sup> – Tuesday 31<sup>st</sup> January 2023  
DURBAN**

**Delegates can claim  
2 ECSA CPD points**



**16 CPD Hours  
Allocated**

#### **COURSE DESCRIPTION**

This accredited course is aimed at all that are actively involved in bridge management from client bodies to consulting engineer personnel that have to do bridge or culvert inspections. The course is based on the TMH19 DER method for bridge and culvert inspections, which is used by national, provincial, and municipal authorities. The DER system of inspections is the compulsory inspection method to be used by all road authorities if they wish to access Treasury funding for maintenance of road structures. The course is open to all, but specifically aimed at those who want to do bridge and culvert inspections for state road authorities.

The course is also essential to those working in road authorities who manage a BMS or administer consultants that do bridge and culvert inspections for their authority.

Attendance of this course and passing the exam is one of the requirements of the Committee of Transport Officials' (COTO) Structures Subcommittee to be accredited as a bridge or culvert inspector. All the requirements for accreditation as a bridge or culvert inspector are contained in TMH19 Part A, which can be downloaded from SANRAL's website using the following link:

<https://www.nra.co.za/technical-methods-for-highways/>

Please note that attendance of this course and passing the exam only does not result in accreditation, as candidates have to apply separately for accreditation and proof that they have the requisite qualifications, experience and meet all the requirements.

ECSA and SACPAMP CPD attendance certificates will however be issued to those who have attended the course.

#### **The course will cover:**

- Introduction to Bridge Management
- The DER rating system
- Typical defects on structures
- Case studies
- Site visit and practical bridge inspection

A set of notes, including the COTO publication, TMH19 MANUAL FOR THE VISUAL ASSESSMENT OF ROAD STRUCTURES will be provided to each delegate.

#### **PRELIMINARY PROGRAMME**

##### **DAY 1**

08:30 – 08:45	Welcome, housekeeping and attendance register
08:45 – 09:00	1 Introduction to structures management
09:00 – 09:20	2 Structure definitions
09:20 – 10:10	3 The TMH19 DER rating system
10:10 – 10:30	4 Inspection forms
<b>10:30 - 11:00</b>	<b>Tea Break</b>
11:00 – 11:30	5 Inspection procedure and quality assurance
11:30 – 11:50	6 TMH22 Requirements for accreditation
11:50 – 12:20	7 TMH19 Manual for Visual Assessments
12:20 – 12:30	Questions and discussion
<b>12:30 - 13:30</b>	<b>Lunch</b>
13:30 - 14:00	8 Inventory and inspection photos
14:00 – 14:30	9 Photographic requirements & tips
14:30 – 15:00	10 Applying bridge asset management
<b>15:00 - 15:30</b>	<b>Tea Break</b>
15:30 – 16:20	11 BMS implementation in SA: Case Studies
16:20 – 16:30	Questions and discussion

##### **DAY 2**

08:30 - 09:00	12 Case Studies
09:00 – 09:30	Travel to bridge site
09:30 – 11:30	Practical on-site bridge inspection
11:30 – 12:00	Return to venue
12:00 – 12:30	Discussion of bridge site inspection
<b>12:30 - 13:15</b>	<b>Lunch</b>
13:15 – 13:30	Summary and arrangement for exam
13:30 – 15:30	Exam
15:30 – 16:00	Closure

#### **COST: THE FEES INCLUDE VAT**

<b>SARF Sponsor Member</b>	<b>R6 980</b>
<b>SARF Members</b>	<b>R7 780</b>
<b>Non-SARF Members</b>	<b>R8 500</b>

**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**

**Closing date: Friday 27<sup>th</sup> January 2023  
To register please contact SARF**

**Sybul / Tshidi  
Tel: 011 394 9025 / 1459**

**E-mail: [sybul@sarf.org.za](mailto:sybul@sarf.org.za) / [tshidi@sarf.org.za](mailto:tshidi@sarf.org.za)**