Introduction

This course module, dealing with the design of asphalt mixes for roads in general, is based largely on TRH 8 / Sabita Manual 35: Design and Use of Asphalt in Road Pavements which was developed to establish a common base for the design of asphalt mixes in South Africa. The intention of this course is to advance the move towards performance-related specifications for the design of asphalt pavement materials, which started with the publication in 2001 of the Interim Guidelines for the Design of Hot-Mix Asphalt (IGDHMA) in South Africa. This move is in line with international best practice and also enables the formulation of national specifications that will reasonably ensure that asphalt layers will perform as expected.

Significant developments in asphalt technology have taken place since the publication of the IGDHMA and therefore a need existed to update the South African design methods for asphalt mixes, particularly in the light of the following developments:

- The revision of the South African Pavement Design Method (SAPDM)
- The increasing use of mix types that cannot be classified as conventional Hot-Mix Asphalt (HMA) and that require alternative design methods. Such mix types would include warm mix, cold mix, mixes with significant proportions of reclaimed asphalt, stone mastic asphalt and Enrobé à Module Élevé (EME) asphalt. This is the reason for the shift in focus in this course from HMA to asphalt in general;
- International and local advances in asphalt technology;
- Increase in volume of heavy vehicles on South Africa’s roads;
- The need to supply roadway infrastructure for bus rapid transit systems;
- A demand for higher performance mixes, often leading to more sensitive mix designs;
- A need to review the current national compliance criteria for asphalt layers in contract specifications.

Course Structure

This course is intended to cover the principles of design of all asphalt product types currently used in South Africa. This includes: hot mix asphalt, warm mix asphalt, and special designs covering asphalt types such as for EME, stone mastic asphalt, porous asphalt, mixes for light traffic in residential areas, and mixes with reclaimed asphalt. Additionally the Bailey method of design of mixes, taking into account the desired aggregate configuration or structure will be presented as an additional module.

The course has been structured into modules as follows:

Module A: General Design Method
Module B: Design principles of Stone Mastic Asphalt
Module C: Design of Porous Asphalt
Module D: Design of EME (High modulus asphalt)
Module E: Design considerations for warm mix asphalt
Module F: The Bailey method of aggregate proportioning – an overview
Module G: Design of thin wearing courses for light traffic
Module H: Designing mixes with reclaimed asphalt

COURSE FEES INCLUDING VAT

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NB - Registration will be limited and, will be accepted on a first received basis and only confirmed by payment of the course fees.

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

Register online at: [http://www.sarf.org.za](http://www.sarf.org.za)

Terms and conditions apply

Closing date: Wednesday 1ST February 2017

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Delegate can claim 3½ CPD points

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