



SOUTH AFRICAN ROAD FEDERATION

presents a 2 day Virtual course

COMPACTION OF ROAD BUILDING MATERIALS

PRESENTERS

Mr. Mike White & Mr. John Onraet

**Thursday 18th – Friday 19th
August 2022**

VIRTUAL via MS TEAMS

**DELEGATES CAN CLAIM
2 ECSA CPD POINTS**



**15 CPD HOURS
ALLOCATED**

COURSE DESCRIPTION

This course is a comprehensive, state of the art course on the compaction of soils, gravels, crushed stone and hot mix asphalt materials. The course has been specially developed to provide a theoretical background as well as practical guidelines for construction site staff.

The course provides essential knowledge for staff from contractors, consulting engineers and road authorities who control and evaluate the compaction of road and earthworks materials. The course is designed to provide the students with a thorough understanding of the theory and techniques of compaction, and it covers all the following aspects:

- ✦ The importance of compaction
- ✦ Soil classification in relation to compactability
- ✦ Principles of soil compaction
- ✦ The influence of moisture
- ✦ Types of compaction plant
- ✦ Practical aspects of compaction
- ✦ Evaluation of compaction testing
- ✦ Factors affecting compaction of hot mix asphalt (HMA)

DAY 1

- ❖ Registration
- ❖ The importance of compaction
- ❖ The relationship between material shear strength and density
- ❖ Road building materials characteristics
- ❖ The influence of moisture and clay
- ❖ Revision quiz - Characteristics of materials
- ❖ Questions / Discussion period
- ❖ Closure of Day 1

DAY 2

- ❖ The principles of compaction
- ❖ Compaction equipment
- ❖ Compaction moisture
- ❖ Compaction of crushed stone base
- ❖ Density testing
- ❖ Revision quiz – Compaction of materials
- ❖ Question / Discussion period
- ❖ **Introduction to asphalt**
- ❖ Factors affecting the compaction of asphalt
- ❖ Rolling procedures and good practice
- ❖ Questions / Discussion period

COURSE FEES PER DELEGATE INCLUDES VAT

SARF Members	R 3 850
Non-Members	R 4 300

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

Terms and conditions apply

Closing date: Friday 12th August 2022

SARF Contact: Sybul / Tshidi

Tel: 011 394 9025 / 1459

**E-mail: sybul@sarf.org.za /
tshidi@sarf.org.za**