



THE SOUTH AFRICAN ROAD  
FEDERATION

*presents a 2 day Virtual course*

## COMPACTION OF ROAD BUILDING MATERIALS

### PRESENTERS

**Mr. Mike White & Mr. John Onraet**

**Wednesday 20<sup>th</sup> – Thursday 21<sup>st</sup>  
October 2021**

**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

<b>SARF Members</b>	<b>R 3 500</b>
<b>Non-Members</b>	<b>R 3 950</b>

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

*Terms and conditions apply*

**Closing date: Friday 15<sup>th</sup> October 2021**

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