KUSOMA
DEVELOPMENT & TRAINING

SOIL TEST METHODS

Classification on soils

QCTO Aligned

SHORT COURSE

OVERVIEW

The main focus of the learning in this course is to build an understanding of the soil test methods applicable to the classification of soil materials. This short course will prepare learners with practical knowledge required as a materials tester.

COURSE CONTENT

Wet preparation and particle size analysis
- SANS 3001-GR1

Dry preparation and dry particle size analysis of gravels and sands
- SANS 3001-GR2

Procedure for determining the clay fraction of a soil sample using a hydrometer
- SANS 3001-GR3

Wet preparation and air-drying of samples for plasticity index and hydrometer tests
- SANS 3001-GR5

Determination of the one-point liquid limit, plastic limit, plasticity index and linear shrinkage
- SANS 3001-GR10

Determination of the liquid limit with the two-point method
- SANS 3001-GR11

Determination of the flow curve liquid limit
- SANS 3001-GR12

Determination of the moisture content by oven-drying
- SANS 3001-GR20

Determination of the maximum dry density and optimum moisture content
- SANS 3001-GR30

Determination of the maximum dry density and optimum moisture content of laboratory mixed cementitiously stabilized materials
- SANS 3001-GR31

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COURSE CONTENT

Determination of in-place dry density (sand replacement)
- SANS 3001-GR35

Determination of the California bearing ratio
-SANS 3001-GR40

Determination of the California bearing ratio of lime treated materials
- SANS 3001-GR41

Preparation, compaction and curing of specimens of laboratory mixed cementitiously stabilized materials
- SANS 3001-GR50

Sampling, preparation, compaction and curing of field mixed freshly cementitiously stabilized materials including the determination of the maximum dry density and optimum moisture content
- SANS 3001-GR51

Sampling and preparation of cored specimens of field compacted, matured, cementitiously stabilized material
- SANS 3001-GR52

Determination of the unconfined compressive strength of compacted and cured specimens of cementitiously stabilized materials
- SANS 3001-GR53

Determination of the indirect tensile strength of compacted and cured specimens of cementitiously stabilized materials
- SANS 3001-GR54

Determination of the wet-dry durability of compacted and
cured specimens of cementitiously stabilized materials by hand brushing
- SANS 3001-GR55

Determination of the wet-dry durability of compacted and cured specimens of cementitiously stabilized materials by mechanical brushing
- SANS 3001-GR56

Determination of the initial stabilizer consumption of soils and gravels
- SANS 3001-GR57

Determination of the cement or lime content of stabilized materials by means of the back titration (acid base) method
- SANS 3001-GR58

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ADMISSION REQUIREMENTS

Prospective delegates should at least have a Matric certificate/NQF4

TARGET AUDIENCE

This short course is ideal for laboratory technicians, people working on road construction projects and for those dealing with civil materials at graduate level.

COURSE FEES

Contact us for detailed costing

COURSE DURATION

5-day course

info@kusoma.co.za

072 601 5866

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