

SOILS, GRAVELS AND CRUSHED STONE BASE MATERIALS TESTER

NQF Level: 4

Credits: 139

SAQA ID: 112828

Accreditation Body: QCTO



PURPOSE

PART QUALIFICATION

Executes sampling and field and laboratory testing of soils, gravels and crushed stone materials to predefined standards for civil engineering construction works.

KNOWLEDGE MODULES

- Basic mathematics and physical sciences
- Introduction to the civil engineering construction industry and construction works
- Introduction to geology and engineering geology
- Introduction to construction materials
- Principles of specifications
- Health and safety applicable to field and laboratory testing
- Theories, and principles of environmental protection in materials testing facilities
- Aggregates, soils, gravels and crushed stone base materials test methods

PRACTICAL SKILLS MODULES

- Draw from storage and assemble testing apparatus for the relevant test
- Check compliance of apparatus to specifications of test method
- Execute laboratory and housekeeping activities
- Organize samples, data information and documentation
- Conduct sampling of soils, gravels and crushed stone materials
- Conduct field testing of compacted and uncompacted fill and pavement layers
- Extract a representative and sized test sample
- Determine particle size distribution and Atterberg Limits of soils, gravels and crushed stone materials
- Determine the density of soils, gravels and crushed stone materials
- Determine compaction and strength characteristics of untreated soils, gravels and crushed stone materials

WORK EXPERIENCE MODULES

- Processes and procedures for conducting laboratory activities, housekeeping and organizing data
- Processes and procedures of executing field sampling and on-site testing
- Processes and procedures of executing sample preparation activities and conducting physical testing of soils, gravels and crushed stone materials, calculating and submitting results.



TARGET AUDIENCE

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



COURSE FEES

Qualification Fees:
Contact us for detailed costing.



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