

CIVIL ENGINEERING AGGREGATES TESTER

NQF Level: 4

Credits: 148

SAQA ID: 112805

Accreditation Body: QCTO



PURPOSE

PART QUALIFICATION

A Civil Engineering Aggregates Tester executes sampling and laboratory testing of aggregates 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
- Overview of a laboratory quality assurance system
- Health and safety applicable to field and laboratory testing
- Working with hazardous substances
- 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 aggregates
- Extract a representative and sized test sample
- Determine particle distribution and particle shape of aggregates
- Determine the density and strength of aggregates

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 aggregate materials, calculating and submitting results of aggregate materials
- Processes and procedures of executing field sampling and on-site testing of aggregates



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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