



CIVIL ENGINEERING CONCRETE TESTER

NQF Level: 4

Credits: 138

SAQA ID: 112833

Accreditation Body: QCTO

PURPOSE

PART QUALIFICATION

A Civil Engineering Concretes Tester executes sampling and field and laboratory testing of concrete 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
- Theories, and principles of environmental protection in materials testing facilities
- Bituminous binders test methods
- Concrete 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
- Organise samples, data information and documentation
- Conduct sampling and field testing of fresh and hardened concrete
- Extract a representative and sized test sample
- Determine the properties of fresh and hardened concrete

WORK EXPERIENCE MODULES

- Processes and procedures for conducting laboratory activities, housekeeping and organising data
- Processes and procedures of executing field sampling and on-site testing
- Processes and procedures of executing sampling of constituent materials, sample preparation activities and conducting physical testing of concrete materials and concrete, calculating and submitting results
- Processes and procedures of executing field sampling and on-site testing of concrete



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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