

CIVIL ENGINEERING BITUMINOUS BINDER TESTER

NQF Level: 4

Credits: 127

SAQA ID: 112826

Accreditation Body: QCTO



PURPOSE

PART QUALIFICATION

A Civil Engineering Bituminous Binder Tester executes sampling and laboratory testing of bituminous binders 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
- Bituminous binders test methods

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 sample preparation activities and conducting physical testing of bituminous binders, 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.

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 bituminous binders
- Extract a representative and sized test sample
- Determine the properties of bituminous base binders
- Determine the properties of modified bituminous binders



COURSE FEES

Qualification Fees:
Contact us for detailed costing.



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