

Civil Construction Learnerships

NQF2

Construction: Materials Testing

SAQA ID

49058

PURPOSE

The purpose of this learnership is to develop the knowledge and skills required for accurate execution of construction materials testing.

The focus of this programme is to enable learners to develop competence in a range of knowledge and skills (under supervision) to safely execute sampling and laboratory testing for mix designs, quality control during construction and acceptance testing of completed products and stabilised materials.

Core unit standards

- Demonstrate an understanding of sexuality and sexually transmitted infections including HIV/AIDS
- Execute laboratory testing pertaining to aggregates
- Execute sampling of aggregate materials for testing
- Implement Occupational Health and Safety measures in a construction materials testing laboratory
- Operate a personal computer system

Elective unit standards

- Demonstrate knowledge of and produce computer spreadsheets using basic functions
- Demonstrate knowledge of and produce word processing documents using basic functions
- Execute laboratory testing pertaining to asphalt materials
- Execute sampling of asphalt materials for testing
- Execute sampling of bituminous binder material for testing

Fundamental unit standards

- Engage in a range of speaking and listening interactions for a variety of purposes
- Read and respond to a range of text types
- Write for a variety of different purposes
- Access and use information from texts
- Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems
- Demonstrate an understanding and apply physical science and chemistry in construction materials testing
- Demonstrate understanding of rational and irrational numbers and number systems
- Maintain and adapt oral communication
- Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts
- Use language and communication in occupational learning programmes
- Use mathematics to investigate and monitor the financial aspects of personal and community life
- Work with a range of patterns and functions and solve problems
- Write for a defined context