

Civil Construction Learnerships

NQF5 Management of Civil Construction Processes

SAQA ID
23683

PURPOSE

The purpose of this learnership is to develop essential skills required for a competent Civil Engineering Construction Manager.

Qualifying learners will be competent in the Management of the execution of Civil Engineering construction projects by applying information from contract documentation, drawings and specifications.

To Manage the financial aspects and administration of a construction project.

Effectively manage, plan and control the resources on a construction project to industry productivity, quality, environment and health and safety standards as well as establish and maintain relationships with construction role-players.

Core unit standards

- Identify describe and use materials in civil engineering construction
- Calculate construction quantities and develop a work plan
- Develop and produce computer aided drawings
- Organize and control the utilization of plant and equipment in civil engineering
- Read, interpret and use construction drawings and specifications
- Apply contract documentation
- Develop and manage quality systems and procedures on a construction project
- Establish and maintain relationships with construction role players
- Initiate testing and interpret test/lab results in civil construction
- Manage construction project administration
- Manage construction resources
- Manage financial aspects of a construction project
- Manage health and safety on a construction project
- Manage human resources on a construction project
- Manage productivity on a construction project
- Prepare for a construction project
- Survey and set out construction work areas
- Tender for construction projects
- Understand and apply structural principles

Elective unit standards – all streams

- Manage labour intensive construction projects
- Understand and apply drainage construction methods
- Manage drainage construction activities

Elective unit standards Structural

- Understand and apply structural construction methods
- Manage structural construction activities

Elective unit standards Roads

- Demonstrate an understanding of road construction methods
- Manage road construction activities

Fundamental unit standards

- Demonstrate the ability to use a database for business purposes
- Produce and use spreadsheets for business
- Produce presentation documents for business
- Produce word processing documents for business
- Apply knowledge of statistics and probability to critically interrogate and effectively
- Describe, represent, analyse and explain changes in shape and motion in 2- and 3- dimensional space with justification
- Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts
- Use mathematics to investigate and monitor the financial aspects of personal,
- Work with a wide range of patterns and inverses of functions and solve related