

Civil Construction Learnerships

NQF1 Construction: Roadworks

SAQA ID
22977

PURPOSE

The purpose of this learnership is to develop elementary skills required in basic road construction operations.

The focus of this programme is to enable learners to develop competence in a range of knowledge and skills of the construction industry and operate within the legislative, safety and quality systems, which govern the workplace in at least one of the streams of roadworks, structures or drainage and services.

Core unit standards

- Demonstrate a critical understanding of the role and impact of technology in society
- Demonstrate an understanding of contracts and their sources
- Demonstrate effective self-management skills
- Demonstrate that a person is a physical, mental, spiritual and social being
- Describe and interpret the composition, roleplayers, processes and role of the construction industry
- Discuss and explain social diversity, human rights and alternative perspectives
- Identify and use protective clothing and equipment in general construction
- Read and interpret construction drawings and specifications
- Understand and apply technological knowledge and skills in systems and control
- Use and maintain Hand tools on a Construction Site
- Use and maintain Power Hand Tools on a construction Site
- Render basic first aid
- Use and maintain small plant and equipment on a construction site

Elective unit standards

- Batch and mix concrete by volume
- Install Gabion Baskets on a Construction Site
- Maintain vegetation and minor structures within the road reserve
- Transport personnel, material and equipment using Light Delivery Vehicle
- Control vegetation by use of herbicides
- Demonstrate an understanding and implement environmental initiatives on a construction activity
- Erect and maintain guardrails on a road construction site
- Erect Anti-Dazzle screen
- Identify describe and use materials in civil engineering construction
- Install and maintain road furniture
- Install manholes and chambers on a civil construction site
- Install precast concrete pipes
- Install road studs
- Mix and apply slurry (By mixer)
- Operate a mechanical core drill
- Paint road symbols by spray gun
- Protect banks
- Replace batter poles/boards, profiles and layer works pegs from given survey data
- Set out control point for centre line and edge line marking for road marking
- Erect fencing

Fundamental unit standards

- Apply concepts of lines of sight, views and perspectives to make sense of and decisions relative to the world around us
- Describe routes and locations and draw simple maps
- Analyse cultural products and processes as representations of shape, space and time
- Describe and represent objects and the environment in terms of shape, space, time and motion
- Describe, represent and interpret mathematical models in different contexts
- Engage with aesthetic, affective, cultural and social values in texts
- Engage with meaning, organisation and structure of texts
- Explore and use a variety of strategies to learn
- Identify, access, analyse, use and present information
- Show a critical awareness of language usage
- Use algebraic notation, conventions and terminology to solve problems
- Use appropriate communication skills, conventions and structures for specific purposes and situations
- Use maps to access and communicate information concerning routes, location and direction