



## CONSTRUCTION

# NATIONAL CERTIFICATE: CONSTRUCTION ROADWORKS

### COURSE INFORMATION

**SAQA ID:** 24133

**NQF Level:** 2

**Learnership Duration:** 12 months

**Credits:** 120

**Contact Sessions:** Minimum Contact Session, including remediation (if required), for this Qualification is **24 Days**

**Accrediting SETA:** Construction Sector Education & Training Authority

### PURPOSE

This qualification is for persons who work or intend to work within a construction context on a site, and who seek recognition for essential skills in construction operations in roadworks.

### ENTRY CRITERIA

- Communication at NQF Level 1.
- Mathematical Literacy at NQF Level 1.

### QUALIFICATION RULES

This qualification is made up of Fundamental, Core and Elective unit standards and a minimum of 120 credits is required to complete the qualification

- Core unit standards totaling 38 credits are compulsory.
- Fundamental unit standards totaling 59 credits are compulsory.
- Elective unit standards totaling a minimum of 23 credits.

### EQUIPMENT NEEDED

- PPE • First Aid consumables • Small plant equipment.  
Depending on electives chosen: bitumen, concrete, road marking equipment, guard rails, fencing.

### MARKET INFORMATION

**Target Market:** Engineers • Road work Supervisors • Foreman & Civil Engineering technical personnel who supervise road work construction.

**Target Industries:** Construction companies • Construction contractors • Municipalities

### COURSE INFORMATION

- **Mentor Requirements:** Mentor must have at least 5 years' experience in a construction environment.
- **Workplace Approval:** Required
- **Workplace Requirements:** Learners must be exposed to all Outcomes related to this qualification.

### SKILLS OUTCOMES

#### Core exit level outcomes:

- Identify and explain the role of different role players in the industry.
- Extract information from drawings and calculate quantities.
- Apply safety in all work processes.
- Records and maintain records all construction activities on site.
- Conduct general construction activities.
- Work in confined spaces.
- Implement roadside safety procedures.
- Identify describe and use materials in Civil Engineering Construction.
- Use and maintain small plant and equipment on a construction site.


#### Fundamental exit level outcomes:


- Show a critical awareness of language usage.
- Analyse and present information.
- Communicate appropriately to the purpose and situation.
- Use mathematics in the construction industry.
- Apply mathematical methods for different contexts.
- Apply algebraic notation and terminology appropriately.
- Read and use maps to enhance communication methods.
- Analyse cultural products in terms of shape, space and time.
- Calculate quantities.


#### Elective exit level outcomes (depending on the electives chosen):


- Apply hot mix asphalt.
- Apply productivity principles on a construction site.
- Batch and mix concrete buy volume.
- Conduct a bituminous seal operation.
- Erect fencing.
- Set out control point for center line and edge line marking for road

### GENERAL INFORMATION

 **Credit Accumulation Transfer (CAT):** CAT exemption is applicable to approved learners. Approved learners will have reduced contact days. Learners who do not meet the CAT requirements will be required to complete Part 1 and Part 2 of every Cluster.

 **FISA Requirements:** Final Integrated Summative Assessment is not a requirement for the successful completion of this learnership.

 **Recognition of Prior Learning (RPL):** RPL is not available for this qualification

 **Training Methodology:** This learnership is not available on UHub



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## UNIT STANDARDS

**Cluster 1 (compulsory) – Credit Accumulation Transfer is applicable to the unit standards below**

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	12462	Engage in a range of speaking and listening interactions for a variety of purposes	6
Fundamental	12473	Identify and respond to selected literacy texts	5
Fundamental	12469	Read and respond to a range of text types	6
Fundamental	12470	Write for a variety of different purposes	6
Fundamental	8963	Access and use of information from texts	5
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate like related problems	3
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and numbers systems	3
Fundamental	8962	Maintain and adapt oral communications	5
Fundamental	12444	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2 dimensions in different life or workplace contexts	3
Fundamental	8967	Use language and communication in occupational learning programmes	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	5
Fundamental	8964	Write for a defined context	5

- Recommended training days for Cluster 1 is 12 days

### Cluster 2 (compulsory)

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	13971	Describe and interpret the composition, role-players, processes and the construction industry	3
Core	9966	Establish and prepare a work area	4
Core	14560	Handle, transport, store and utilize hazardous materials on a civil construction site	5
Core	13972	Identify, describe and use materials in civil engineering construction	4
Core	14561	Implement roadside safety procedures	2
Core	14336	Maintain records on a construction site	2
Core	14054	Read and interpret construction drawings and specifications	3
Core	9965	Render basic first aid	3
Core	12875	Use and maintain small plant and equipment on a construction site	10
Core	15034	Work in confined spaces on construction sites	2

- Recommended training days for Cluster 1 is 8 days



## CONSTRUCTION

### Cluster 3 Elective options (choose unit standards with a minimum value of 23 credits)

Outcome	SAQA ID	Name of Unit Standard	Credits
Elective	9964	Apply health and safety to a work area	3
Elective	14556	Apply productivity principals on a construction site	6
Elective	14575	Construct precast kerbs and concrete channels on a roadworks construction site	5
Elective	14555	Conduct a bituminous seal operation	5
Elective	13958	Maintain and repair bituminous road surfaces	8
Elective	12908	Set out control points for center line marking for road marking	5
Elective	9986	Apply quality principals on a construction site	12
Elective	12900	Erect and maintain guard rails on a construction site	5
Elective	12910	Erect fencing	2
Elective	12916	Batch and mix concrete by volume	5
Elective	9357	Develop and use keyboard skills to enter text	4
Elective	14565	Use a concrete dumper to haul and dump material	2
Elective	14562	Install Road Markers	2

■ Recommended training days is dependent on electives chosen, with a minimum of 4 training days recommended