

# ARTISAN CAREER PATH DEVELOPMENT

## Phase 1

- Qualification Development

## Phase 2

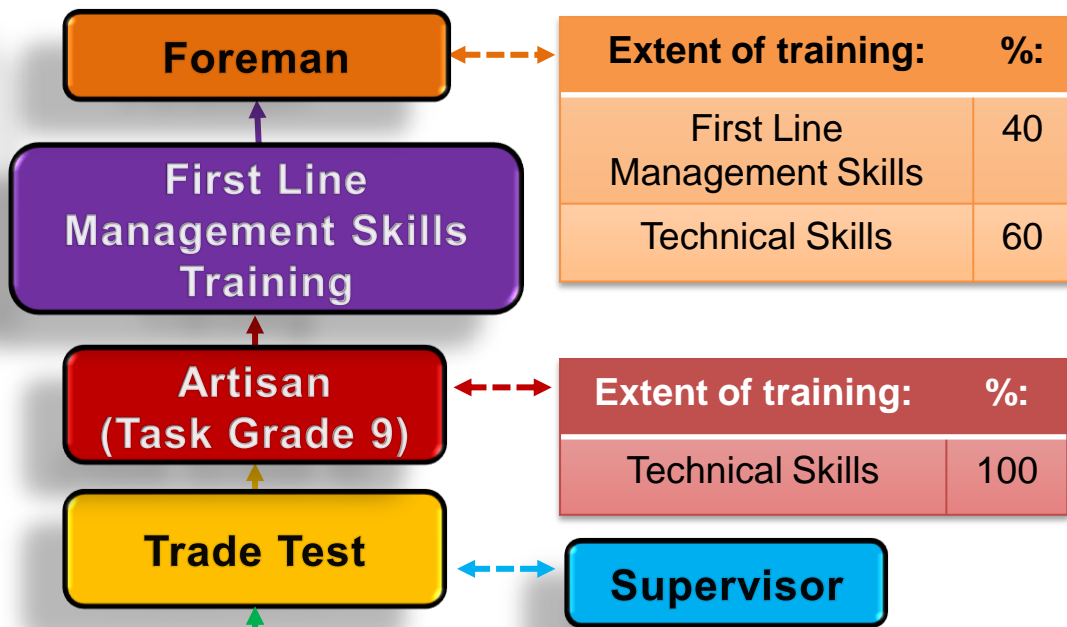
- Curriculum Development

## Phase 3

- Learning Material Development
- Consolidation

# CONSTRUCTION ARTISANS QUALIFICATION

- Entry level requires 1 of: \*
1. Task Grade 4 Skills
  2. Grade 9 with Maths
  3. ABET Level 4
  4. NQF Level 1



**Task Grade:**      **Modules:**      **NQF Level:**



**8**      Core & Elective      **4**



**6**      Core      **3**



**4**      Foundation      **2**



**1**      **General Worker** \*



# Construction Artisan – ALL QUALIFICATIONS

## 1<sup>st</sup> Year – First Semester

NQF Level 2  
Foundation Modules

General Modules	Basic Work Modules	Specific Work Modules
Personal Protective Equipment  First Aid  Fire Fighting  Introduction to Environmental Issues	Introduction to OHS  Basic Calculations  Introduction to Drawings  Introduction to Basic Hand Tools  Construction Quantities 1  Setting Out 1	Construction Methods 1  Construction Material 1  Basic Scaffolding  Batch & Mix Concrete

## 1<sup>st</sup> Year – Second Semester

NQF Level 2  
Foundation Modules

General Modules	Basic Work Modules	Specific Work Modules
Working at Heights and Confined Spaces  Store, Transport and Handling of Material, Aggregates and Plant on a Construction Site	Introduction to Quality  Advanced Calculations  Interpretation of Drawings  Construction Quantities 2  Setting Out 2  Hand & Power Tools	Construction Methods 2  Construction Material 2  Concrete Technology

# Construction Artisan - Roadworks

2nd Year						
NQF Level 3 Core Modules	Basic Work Modules	Specific Work Modules				
	Standard Specifications	Earthworks	Layerworks & Surfacing	Drainage	Peripheral Work	Signs & Markings
	Basic Construction Plant	Clearing & Grubbing	Pavement Layers	Trench Excavation & Shoring	Kerbs & Channels	Setting Out Centre Line
		Stockpile Topsoil				
		Risk Assessments	Stabilisation	Backfilling & Compaction	Guardrails	Spray Road Symbols
		Lift and Move Loads on a Construction Site	Plant Utilisation	Compaction	Gabions	Road Signs
Laboratory Test Results		Laboratory Test Results	Concrete Pipes Level 1	Stone Pitching	Traffic Control	
			V-Drains			

# Construction Artisan - Roadworks

3rd Year						
NQF Level 4 Core Modules	Basic Work Modules	Specific Work Modules				
		Earthworks	Layerworks & Surfacing	Drainage	Peripheral Work	Signs & Markings
	Basic Planning & Scheduling	Borrow Pits	Surfacing	Head & Wing Walls	Reno Mattresses	Road Studs
Basic Estimating & Daily Costing	Bulk Earthworks	Apply Hot Mix Asphalt	Manholes & Chambers	Fencing Level 1	Rumble Strips	
Daily Production Control	Plant Utilisation	Chip & Spray	Culverts	Bank Protection 1	Anti-Dazzle Screens	
	Laboratory Test Results	Surface Repairs	Sub-Soil Drains	Road Furniture		
		Laboratory Test Results				

# Construction Artisan - STRUCTURES

		2nd Year			
		Specific Work Modules			
NQF Level 3 Core Modules	Basic Work Modules	Formwork	Reinforcing	Concrete	Steel
	Standard Specifications	Setting Out Formwork	Interpret Reinforcing Drawings	Mix, Transport & Place Concrete	Introduction to Steel Structures
	Basic Construction Plant	Erect Formwork for Walls	Basic Steel Fixing	Compact, Cure & Finish Concrete	Assembling & Erecting Steel Structures
	Risk Assessments	Erect Formwork for Columns	Assemble & Tie Rebar Cages	Reinforced Concrete	
	Lift and Move Loads on a Construction Site	Erect Formwork for Beams & Slabs		Concrete Testing	

# Construction Artisan - STRUCTURES

		3rd Year			
NQF Level 4 Core Modules		Basic Work Modules	Specific Work Modules		
			Formwork	Reinforcing	Concrete
Basic Planning & Scheduling		Erect L-shaped Beams & Slabs	Assemble Rebar for Columns, Decks & Bases	Concrete Piling	Use Lifting Equipment  Erect & Dismantle Scaffolding
Basic Estimating & Daily Costing		Purpose Made Formwork	Pre-stressing	Mass Concrete	
Daily Production Control		Erect Framework for Staircases	Post-stressing	Blinding Layers  Specialised Concrete Repairs	

# Construction Artisan – Drainage & Services

2nd Year					
NQF Level 3 Core Modules	Basic Work Modules	Specific Work Modules			
	Standard Specifications	Drainage Structures	Services	Environmental	Concrete
	Basic Construction Plant	Concrete Side Drains	Trench Exc. & Shoring	Retaining Ponds	Mix, Transport & Place Concrete
		Gravel Side Drains	Backfilling & Compaction	Erosion Protection	Reinforced Concrete
		Mitre Drains	Water Distr. Lines	Protection of Vegetation	Compact, Cure & Finish Concrete
Manholes		Main Water Supply Lines	Re-establishing Trees	Concrete Testing	
Risk Assessments	Sub-Soil Drains	House Connection			
Lift and Move Loads on a Construction Site					



# Construction Artisan – Drainage & Services

		3rd Year			
		Basic Work Modules	Specific Work Modules		
NQF Level 4 Core Modules	Basic Planning & Scheduling	Drainage Structures	Services	Environmental	Concrete
	Basic Estimating & Daily Costing	Cut-off Drains	Sewer Collection Lines	Stormwater Management	Mass Concrete
		Pipe Culverts	Main Sewer Lines	Planting Grass and other Vegetation	Blinding Layers
	Daily Production Control	Kerb Inlets Stormwater Pipes	House Connections		Specialised Concrete Repairs