

Qualification Information:	Qualification Title	SAQA ID	NQF Level	Credits		
Curriculum Code:	Occupational Certificate: Pipe Fitter	99255	4	581		
Knowledge Component			Notional Hours	Implementation Schedule (4 hourly Training Session)	Assessment Schedule	Training Venue
642607000-KM-01	Introduction to the Pipe Fitter Trade, Level 02, 5 Credits.		50 Hours	13 days	2 days	Main Campus
642607000-KM-02:	Health and Safety Requirements related to the Pipe Fitting Trade, Level 02, 5 Credits.		50 hours	13 days	2 days	Main Campus
642607000-KM-03:	Engineering drawings, Level 03, 13 Credits.		130 hours	33 days	2 days	Main Campus
642607000-KM-04:	Pipe Fitting design specifications and standards, Level 02, 10 Credits.		100 hours	25 days	2 days	Main Campus
642607000-KM-05:	Trade related engineering hand tools, Level 02, 7 Credits.		70 hours	18 days	2 days	Main Campus
642607000-KM-06:	Trade related engineering power tools, Level 04, 7 Credits.		70 hours	18 days	2 days	Main Campus
642607000-KM-07:	Basic marking off techniques, Level 02, 7 Credits.		70 hours	18 days	2 days	Main Campus
642607000-KM-08:	Thermal processes, Level 03, 15 Credits.		150 hours	38 days	2 days	Main Campus
642607000-KM-09:	Pipe systems, Level 04, 45 Credits.		450 hours	113 days	2 days	Main Campus
642607000-KM-10:	Basic rigging, Level 02, 10 Credits.		100 hours	25 days	2 days	Main Campus
Practical Component				6 Hourly Training Session		
642607000-PM-01:	Produce Engineering Drawings, Level 03, 24 Credits.		240 hours	60 days	7 days	Welding Workshop
642607000-PM-02:	Perform work assignments utilising trade related engineering hand tools, Level 02, 15 Credits.		150 hours	38 days	7 days	Welding Workshop
642607000-PM-03:	Perform work assignments utilising trade related power tools, Level 04, 15 Credits.		150 hours	38 days	7 days	Welding Workshop
642607000-PM-04:	Perform basic marking off techniques, Level 02, 4 Credits.		40 hours	10 days	7 days	Welding Workshop
642607000-PM-05:	Perform Shielded Metal Arc/Manual Metal Arc Welding (SMAW/MMAW), Level 03, 12 Credits.		120 hours	30 days	7 days	Welding Workshop
642607000-PM-06:	Perform Gas Tungsten Arc Welding (GTAW), Level 03, 12 Credits.		120 hours	30 days	7 days	Welding Workshop
642607000-PM-07:	Perform Gas Metal Arc Welding (GMAW), Level 03, 12 Credits.		120 hours	30 days	7 days	Welding Workshop
642607000-PM-08:	Perform thermal cutting and heating using oxy-fuel processes, Level 03, 12 Credits.		120 hours	30 days	7 days	Welding Workshop
642607000-PM-09:	Perform thermal cutting using the plasma cutting process, Level 03, 10 Credit.		100 hours	25 days	7 days	Welding Workshop
642607000-PM-10:	Identify and inspect pipe systems and related components to ensure operational integrity, Level 02, 8 Credits.		80 hours	20 days	7 days	Welding Workshop
642607000-PM-11:	Remove threaded pipe systems and related components, Level 02, 8 Credits.		80 hours	20 days	7 days	Welding Workshop

642607000-PM-12:	Remove welded pipe systems and related components, Level 03, 16 Credits.	160 hours	40 days	7 days	Welding Workshop
642607000-PM-13:	Apply pipe development drawing principles and techniques, Level 04, 32 Credits.	320 hours	80 days	7 days	Welding Workshop
642607000-PM-14:	Produce threaded pipe systems according to drawing, specifications and HSE requirements, Level 03, 12 Credits.	120 hours	30 days	7 days	Welding Workshop
642607000-PM-15:	Fabricate welded pipe systems according to drawings, specifications and HSE requirements, Level 04, 20 Credits.	200 hours	50 days	7 days	Welding Workshop
642607000-PM-16:	Install pipe hangers to support pipe systems according to drawing, specifications and HSE requirements, Level 03, 12 Credits.	120 hours	30 days	7 days	Welding Workshop
642607000-PM-17:	Perform pressure testing and quality assurance pertaining to pipe systems and components, Level 04, 8 Credits.	80 hours	20 days	7 days	Welding Workshop
642607000-PM-18:	Apply Health, Safety and Environment Requirements related to the Pipe Fitting Trade, Level 02, 4 Credits.	40 hours	10 days	7 days	Welding Workshop
642607000-PM-19:	Perform metal identification and thermal treatment techniques on various engineering materials, Level 03, 12 Credits.	120 hours	30 days	7 days	Welding Workshop
642607000-PM-20:	Perform air arc carbon gouging, Level 03, 2 Credits.	20 hours	5 days	7 days	Welding Workshop
Workplace Component			8- Hourly Training Session		
642607000-WM-01:	Perform activities whilst adhering to Health and Safety Requirements related to the Pipe Fitting environment, Level 02, 10 Credits.	100 hours	13 days	7 days	Welding site / Workshop
642607000-WM-02:	Health and Safety Requirements related to the Pipe Fitting Trade, Level 02, 2 Credits.	20 hours	3 days	7 days	Welding site / Workshop
642607000-WM-03:	Inspection and identification processes of pipe systems and related components, Level 03, 10 Credits.	100 hours	13 days	7 days	Welding site / Workshop
642607000-WM-04:	Produce a range of plate welds using various welding processes in a workplace, NQF Level 4 (40)	400 hours	50 days	7 days	Welding site / Workshop
642607000-WM-05:	Removal processes for welded pipe systems and related components, Level 03, 35 Credits.	350 hours	44 days	7 days	Welding site / Workshop
642607000-WM-06:	Work processes for producing threaded pipe systems according to drawing, specifications and HSE requirements, Level 03, 30 Credits.	300 hours	38 days	7 days	Welding site / Workshop
642607000-WM-07:	Fabrication processes of welded pipe systems according to drawing specifications and HSE requirements, utilising pipe development drawing principles and techniques, Level 04, 45 Credits.	450 hours	57 days	7 days	Welding site / Workshop
642607000-WM-08:	Installation processes of pipe support systems according to design drawings, specifications and HSE requirements, Level 03, 35 Credits.	350 hours	44 days	7 days	Welding site / Workshop
642607000-WM-09:	Pressure testing and quality assurance procedure participation pertaining to pipe systems and components, Level 04, 20 Credits.	200 hours	25 days	7 days	Welding site / Workshop

General Information

The QCTO curriculum contents of Knowledge Modules, Practical Modules, and workplace modules, the apprentices in this qualification will be exposed to theory, practice, and workplace exposure during the 3-year program. The Qualification is implemented via a dual system approached, meaning apprentices must rotate from college to workplace every during the learning program.

Who is a Pipe Fitter?

A Pipe fitter disassembles, repairs, maintains, fabricates, assembles, installs and quality assures pipe systems in accordance with design and engineering codes and specifications taking into consideration health, safety and environmental requirements.

If you like the idea of working with metal and building, then welding may be the career path for you!

Entry Requirements

- Grade 9/10/11/12 Or NQF Level 1 with Mathematics, Science.

Occupational Purpose

A qualified learner will be able to:

- Maintain pipe systems and related components applying removal, inspection and installation techniques in accordance with pre-defined specifications.
- Fabricate pipe systems in accordance with relevant specifications.
- Participate in quality assurance and testing procedures of pipe systems and related components in accordance with specifications.

Output

- Qualified tradesman with a red seal or trade test after 3 years.
- The candidate will pass the new trade test that includes both theory assessment (**Formative Assessments**), **Summative Assessments & Practical Assessments**

Career

Qualified pipe fitters are likely to be employed by major industries such as marine, petro-chemical, power generation, food and beverage, steel manufacturing, etc.

Course Requirements:

- PPE – (Purchase from College)
- Safety Boots
- Study Material
- Log Book

Fees

- Registration Fees: **R1000**
- Deposit: **R5000 (Includes P.P.E, Student Card, Course Material/ Study Material / Assessments Fees)**
- Monthly Instalment: **R3000**
- Duration: **3 Years**