

Qualification Information:	Qualification Title	SAQA ID	NQF Level	Credits		
Curriculum Code:	Occupational Certificate: Welder	94100	4	373		
Knowledge Component		Notional Hours	Implementation Schedule (4 hourly Training Session)	Assessment Schedule	Training Venue	
651202000-KM-01:	Introduction to the welding trade, NQF Level 2 (2 credits)	20 Hours	5 days	2 days	Main Campus	
651202000-KM-02:	Occupational Safety, Health and Environmental Protection, NQF Level 2 (4 credits)	40 hours	10 days	2 days	Main Campus	
651202000-KM-03:	Welding schematics, calculations, welds and welded joints, NQF Level 2 (6 credits)	60 hours	15 days	2 days	Main Campus	
651202000-KM-04:	Weld imperfections, NQF Level 2 (2 credits)	20 hours	5 days	2 days	Main Campus	
651202000-KM-05:	Cutting and gouging, NQF Level 2 (2 credits)	40 hours	10 days	2 days	Main Campus	
651202000-KM-06:	Welding consumable classification and handling, NQF Level 2 (4 credits)	40 hours	10 days	2 days	Main Campus	
651202000-KM-07:	Metals and weldability of metals, NQF Level 3 (8 credits)	80 hours	20 days	2 days	Main Campus	
651202000-KM-08:	Fusion welding, NQF Level 3 (6 credits)	60 hours	15 days	2 days	Main Campus	
651202000-KM-09:	Arc welding, NQF Level 3 (8 credits)	80 hours	20 days	2 days	Main Campus	
651202000-KM-10:	Gas welding and cutting, NQF Level 3 (4 credits)	40 hours	10 days	2 days	Main Campus	
651202000-KM-11:	Welding codes, standards and parameters, NQF Level 4 (6 credits)	60 hours	15 days	2 days	Main Campus	
651202000-KM-12:	Shrinkage, residual stress and distortion, NQF Level 4 (4 credits)	40 hours	10 days	2 days	Main Campus	
651202000-KM-13:	Manual Metal Arc (MMA) welding process, NQF Level 4 (7 credits)	70 hours	18 days	2 days	Main Campus	
651202000-KM-14:	The Metal Inert Gas/Metal Active Gas/Flux Cored Arc (MIG/MAG/FCAW) welding process, NQF Level 4 (7 credits)	70 hours	18 days	2 days	Main Campus	
651202000-KM-15:	Manual Metal Arc (MMA) welding process, NQF Level 4 (7 credits)	70 hours	18 days	2 days	Main Campus	
651202000-KM-16:	Welding inspection and quality, NQF Level 4 (4 credits)	40 hours	10 days	2 days	Main Campus	
Practical Component			6 Hourly Training Session			
651202000-PM-01:	Fabricate simple components or work pieces, NQF Level 2 (4)	40 hours	7 days	7 days	Welding Workshop	
651202000-PM-02:	Cut, gouge and gas weld material manually, NQF Level 2 (12)	120 hours	20 days	7 days	Welding Workshop	
651202000-PM-03:	Perform fillet welds using the Shielded Metal Arc Welding process, NQF Level 3 (12)	120 hours	20 days	7 days	Welding Workshop	
651202000-PM-04:	Perform fillet welds using the Gas Metal Arc Welding process, NQF Level 3 (12)	120 hours	20 days	7 days	Welding Workshop	
651202000-PM-05:	Perform fillet welds using the Gas Tungsten Arc Welding process, NQF Level 3 (16)	160 hours	27 days	7 days	Welding Workshop	

651202-PM-06:	Perform plate butt welds using the Shielded Metal Arc Welding process, NQF Level 4 (16)	160 hours	27 days	7 days	Welding Workshop
651202000-PM-07:	Perform plate butt welds using the Gas Metal Arc Welding process, NQF Level 4 (16)	160 hours	27 days	7 days	Welding Workshop
651202000-PM-08:	Perform plate butt welds using the Gas Tungsten Arc Welding process, NQF Level 4 (16)	160 hours	27 days	7 days	Welding Workshop
651202000-PM-09:	Perform pipe welds using the Shielded Metal Arc Welding process, NQF Level 4 (16)	160 hours	27 days	7 days	Welding Workshop
651202000-PM-10:	Perform pipe welds using the Gas Metal Arc Welding process, NQF Level 4 (16)	160 hours	27 days	7 days	Welding Workshop
651202000-PM-11:	Perform pipe welds using the Gas Tungsten Arc Welding process, NQF Level 4 (20)	200 hours	34 days	7 days	Welding Workshop
Workplace Component			8- Hourly Training Session		
651202000-WM-01:	Cut and gouge a range of materials in the workplace, NQF Level 2 (8)	80 hours	10 days	7 days	Welding site / Workshop
651202000-WM-02:	Produce a range of fillet welds using various welding processes in a workplace, NQF Level 4 (40)	400 hours	50 days	7 days	Welding site / Workshop
651202000-WM-03:	Care for, control and handle consumables and materials in a workshop, NQF Level 2 (4)	40 hours	5 days	7 days	Welding site / Workshop
651202000-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
651202000-WM-05:	Teamwork, communication and reporting in the workplace, NQF Level 3 (8)	80 hours	10 days	7 days	Welding site / Workshop
651202-WM-06:	Produce a range of pipe welds using various welding processes in a workplace, NQF Level 4 (52)	520 hours	65 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 Welder?

Welders work with metal and know its strength and weaknesses.

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

Welding is the process of joining pieces of metal together, heat is applied to metal pieces and this cause the metals to bond together.

Entry Requirements

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

Occupational Purpose

A welder joins metal products in accordance with Welding Procedure Specifications using an electric arc or gas welding process

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

- Fabricator / Welder, Plater-welder / Welding Inspector / Sheet Metal Worker / Pipe Fitter / Mig Welder / Steel Worker / Oil Rig Welder / Auto body Welder

Course Requirements:

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

INTERNAL CONTINUOUS ASSESSMENT (ICASS)

Our internal Assessments are not limited to the following:

- Workplace tasks (e.g. case studies)
- Briefs • Practical Demonstrations
- Assignments/Tests
- Projects, etc.

Internal **QA** processes must be in place by the **SDP** to ensure these assessments are fit for purpose

EXTERNAL ASSESSMENT

- External assessments are managed and conducted by Quality Partners – a national standard is set.
- Only learners that have enrolled and registered with the **QCTO** may sit for the **EISA**
- Submission of **SoR** to **QCTO** prior to **EISA**

- This is a competency based final assessment
- Approval of Results and Certification by the **QCTO**

FINAL ASSESSMENTS

EISA

The **External Integrated Summative Assessment (EISA)** is the final assessment managed and conducted by the Quality Partner/Assessment Quality Partner; it is used to assess all learners nationally. In the **EISA** the learner proves his/her competence against the Exit Level Outcomes of the Qualification. Learners qualify for entry into **EISA** via a **Statement of Results (SoR)** issued by the **SDP** or the institution used in the **RPL** route.

The **EISA** is conducted for a particular qualification or part qualification at accredited assessment or trade test centres.

EISA Benefits Industry/Employers – by ensuring that learners will be competent workers as they would have had to demonstrate competencies in in work related tasks or scenarios during the **EISA**.

CERTIFICATION

SDPs are not allowed to print their own certificates for occupational qualifications. Certificates are issued by the QCTO's secure CVS certification system.

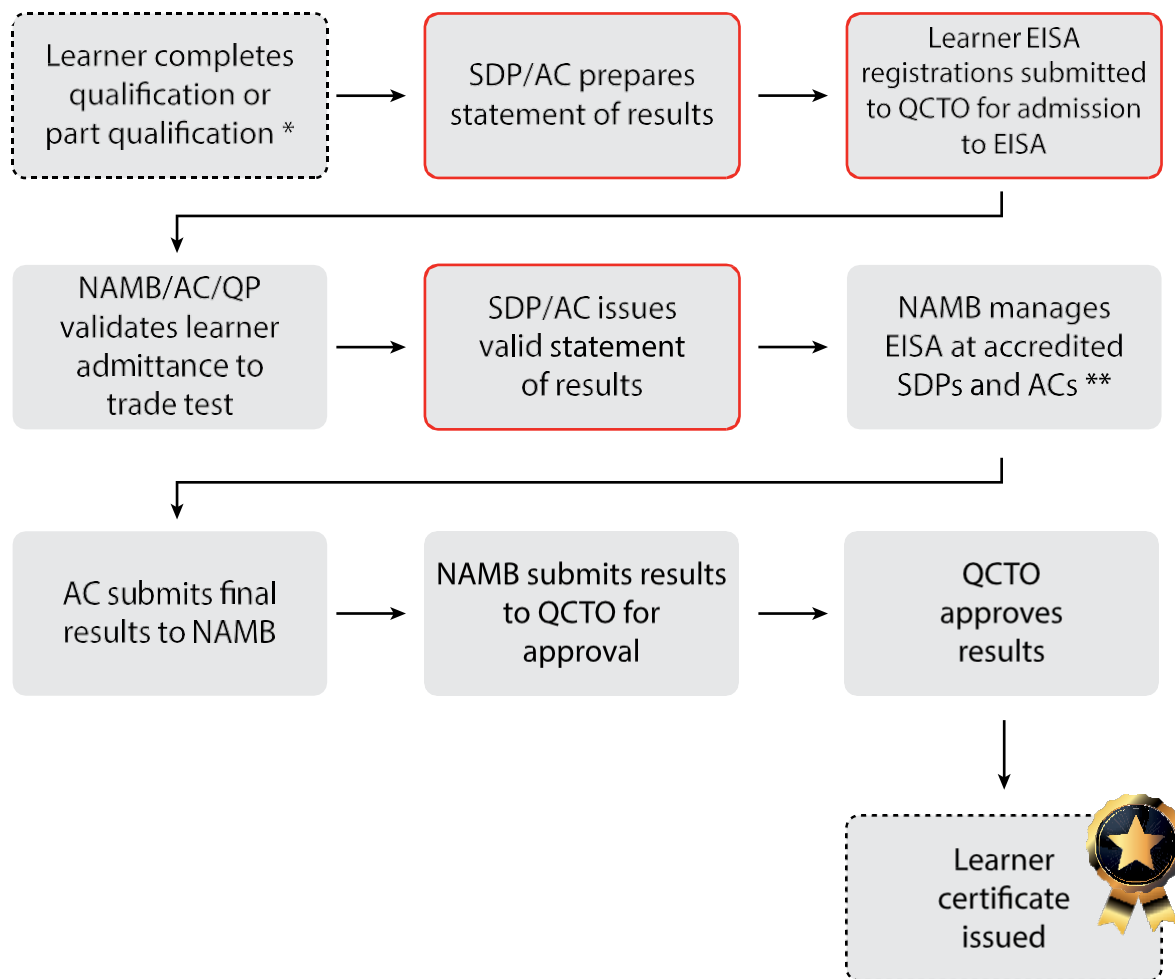
The QAS document specifies the timeline for the EISA assessment and moderation process, but this is usually about 21 days. From there, the QCTO aims to approve the results in 21 days, after which it should take the QCTO 21 days to issue the learner certificates.

Fees

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

✓ External Integrated Summative Assessment Process

🔧 Trades





* Either via formal training with SDP or via ARPL with AC



** Learners complete the written component of the EISA at the SDP. The SDP marks & moderates this final assessment and submits results to the AC where the learner will sit for the practical component (trade test). The learner needs to register at an accredited Assessment Centre.