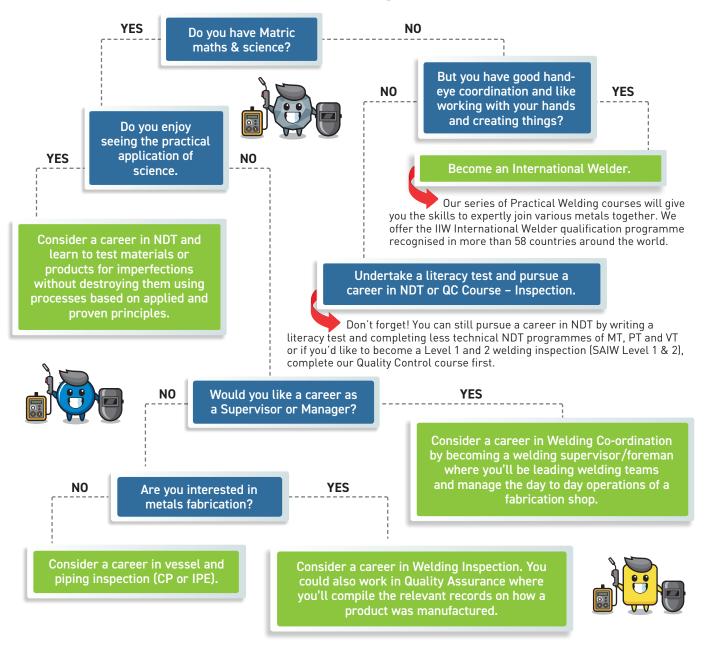




How can SAIW power your career?



Choose a career in welding!

Using the SAIW to deliver your preferred programme will ensure you a bright and prosperous career, so register today!

For more information contact our Client Liaison on 084 446 0629 or 011 298 2100.

A Career in Welding

In recent decades welding has become a dominant process in the fabrication of industrial products and in the building of structures from steel. It is used in all phases of production and is needed not only nationally but also internationally in almost every industry ranging from micro-electronics to construction of petrochemical plants, power generation, buildings and transport. Due to the diversity of welding-related projects, there is excellent flexibility to switch industries without the need to change your career.

The fact that welding is in a strong growth trend accounts for the mounting interest in it as a career. Completing a course in welding can virtually assure you of a gainful employment opportunity for advancement during your career. Similarly, those who become welding inspectors, welding coordinators, non-destructive testing (NDT) technicians, professional welding engineers or designers can look forward to extremely rewarding career opportunities.

SAIW has been offering training courses in both welding and non-destructive testing technologies since the late 1970s. You can choose to be a **practical welder** where you will join materials together using any of the various welding processes. As a welder you can progress your career by further study in **welding coordination** to become a welding supervisor/ foreman. The welding coordination courses are not only for welders. People hoping for a career in leading welding teams and managing the day-to-day operations of a fabrication shop can enrol on these courses too, for example; welding engineer, welding technologist, welding specialist etc.

SAIW courses also present opportunities for you to work as a **welding inspector**, a career in which you will be responsible for verifying that the welders are following their work instructions, and the welding supervisors are doing their work according to approved and implemented procedures. As a welding inspector you can also work in quality assurance

where you compile the relevant information for records on how a product was manufactured.

The SAIW also offers **Non-Destructive Testing** courses in six different testing methods. Personnel form part of the chain of various fields of expertise which are used to ensure the world is using high quality products which pose little risk to the end user. Personnel test materials or products for any imperfections without destroying the products or materials and is not only limited to testing of welds, but can be extended to various product sectors such as castings, forgings, tubes etc. and applied in most of the industrial sectors such as preand in-service testing, power generation, petrochemical etc. This is achieved by using various applied scientific principles and therefore a career in NDT will never stagnate. There will always be the opportunity to diversify into other methods or alternatively you can specialise in one or more methods to an advanced level of competency.

SAIW courses are intended to meet best practice **international standards** and many are accredited by the International Institute of Welding (IIW) or International Committee for Non-Destructive Testing (ICNDT) Mutual Recognition Agreement (MRA).

SAIW inspection courses also fulfil the requirements of local certification programmes for inspection personnel (SAQCC IPE and CP) which are approved by the Department of Employment and Labour.

SAIW practical welding courses are accredited by IIW for the International Welder (IW) programme and welder apprenticeships by QCTO.

The SAIW offers training courses at our Johannesburg headquarters, and in Durban and Cape Town. Many SAIW courses are suitable for presentation at in-company training facilities.

SAIW Course World

Below infographic represents the entire offering of SAIW courses.

SAIW COURSES

- QCTO Welder
- · Welding Symbols
- Welding
- International Plate Welder
- International Fillet Welder
- International Pipe Welder
- Robotic Welding

- IIW Practitioner
- IIW Specialist
- Inspector to Specialist Bridging Course
- IIW Technologist
- IIW Engineer

- Welding Quality Control
- SAIW Welding and Fabrication Inspector Level 1
- Bridging IWI B to Level 1
- SAIW Welding and Fabrication Inspector Level 2
- IWIP Comprehensive
- Competent Person Course
- 5 Day Engineers Appreciation of Welding
- ASME Code
- AWS D1.1
- Heat Treatment Practitioner
- Paint Inspector

- Visual Testing
- Eddy Current
- UTWT
- Industrial Radiographic Safety
- Portable Hardness Testing
- Appreciation of NDT for Engineers
- · Penetrant Testing
- Magnetic Particle Testing
- Replica Metallography
- Radiographic Testing
- Ultrasonic Testing

- Artisan Welder
- Tradesman
- Boilermaker
- Pipe Welder
- Pipe Fitter
- Structural Steel Welder
- Welding Operator
- Artist/Sculptor
- Sheet Metal Worker
- Robotic Operator/ Programmer
- · Safety Officer
- Welding School Instructor

- · Welding Technologist
- Welding Engineer
- Robotic Operator
- Technical Sales Representative
- Estimator
- Welding/Fabrication Supervisor
- · Project Manager
- Fabrication Workshop Manager
- Research & Development
- Fabrication Management
- Academic
- · Quality Auditor
- Quality Engineer
- Fabrication Supervisor or Foreman

Welding Co-ordination

- Welding Lecturer
- Fabrication & Welding Inspector
- Competent Person Pressure Vessels
- Competent Person -Steam Generators
- Quality Control Personnel
- Inspector of Pressurised Equipment
- Fabrication Foreman

- Eddy Current
- Magnetic Particle Testing
- Penetrant Testing
- Visual Testing
- · Radiographic Testing
- Industrial Radiographic Safety
- Ultrasonic Testing
- UTWT
- Appreciation of NDT for Engineers
- Portable Hardness Testing
- Replica Metallography

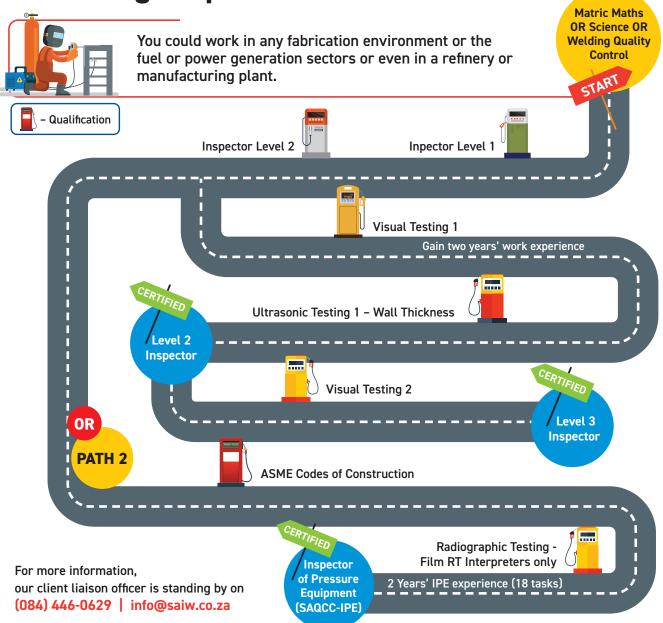
Practical Welding

Non-Destructive Testing

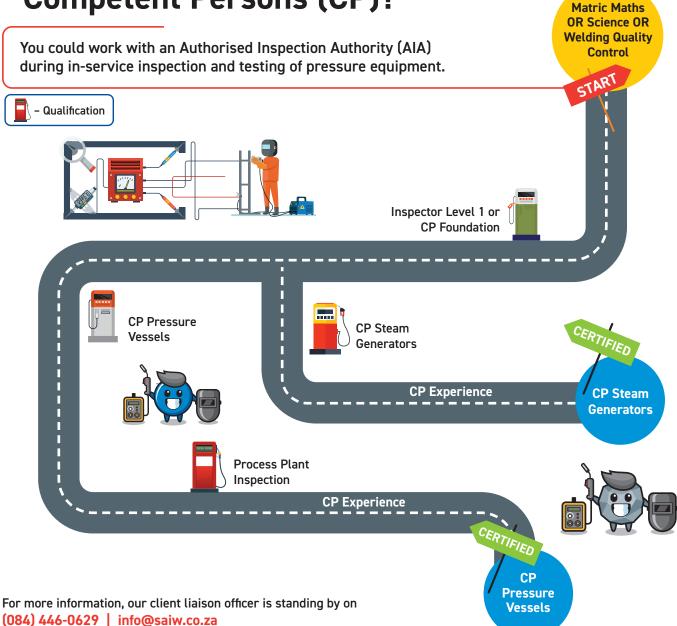
Welding Inspection

CAREER PATHS

Would you like to become a Welding Inspector



Would you like to become a Competent Persons (CP)?





CAREER PLAN FOR INSPECTORS

WELDING INSPECTOR **IPE** ASME SAIW Welding and Fabrication Inspector **Codes of Construction** (Level 1) 4 Weeks and NBIC including IWI Basic Level 2 Weeks PLUS. SAIW Welding and Fabrication Inspector RT Interpreters (Level 2) 2 Weeks 5 Weeks including IWI Standard Level PLUS 2 Year IPE 2 Years Experience Experience at Standard Level (19 Tasks) **IWI COMPREHENSIVE IPE Certification**

PAINT INSPECTOR

SAIW Paint Inspector 1 Week

NDT

NDT Module's To facilitate understanding of NDT Reports

MT*
PT*
UT*
RT*
VT*

After Relevant Industrial Experience**

- * Total duration of institutional knowledge modules. Note that Level 1 qualification in the relevant method is a prerequisite for Level 2 courses of the same method
- ** Industrial
 Experience is
 required at each level
 for each method.





COMPETENT PERSONS

Competent Person **CP** Experience Steam Generators Qualification Core Week **Competent Person** Dependent* 2 Weeks Foundation Module (If no Inspector Level 1) **Competent Person** Industry Specific 1 Week Pressure Vessels Module Eg. Process Apply for Core Week Plant Inspection Certification 1 Week 4 Weeks CP Steam Generators **CP** Experience **CP** Experience Qualification Qualification Dependent* Dependent* (Vessel Inspection) (Vessel Inspection) Apply for Apply for Certification Certification **CP Pressure CP Pressure** Vessels Vessels Certification Certification Limited Unimited

