

# PRACTICAL WELDER COURSES 2025

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**SAIW offers industry developed training programmes, which aim to provide the candidates with the necessary skills to meet industry needs.**

**Our skills programme is in the process of being registered with the relevant QCTO, and once registered, may be recognised as part qualifications and contribute credits towards NQF aligned qualifications.**



# FOCUSED APPROACH TO 2025 Course Offering

**Rationalised number of courses means students should **PLAN AHEAD** and **BOOK TODAY!****

The aftershocks of the COVID-19 pandemic and resultant shifts in student numbers and their availability have seen the SAIW rationalise its current approach so that although the number of scheduled courses we offer remains exactly the same, but the number of times these particular courses are offered through the year has been reduced, to provide a more streamlined offering. In line with this more focused approach, we are therefore proud to launch our courses for 2025!

**(SEE THE FULL LIST IN THE TABLE ON THE NEXT PAGE WHICH PROVIDES A CLEAR IDEA OF THE COURSES WE OFFER).**

## Cost benefit

The cost benefit of this streamline approach is that a third of our courses have been reduced in price and more than half our course prices have been increased at less than the inflation rate.

## Plan ahead

The more streamlined and cost-effective approach means that students need to plan their training schedule for 2025 well in advance and book early to ensure they are in time for their desired course start date next year.  
**See your options on the next page.**

## Non-scheduled & Regional Courses

**DEMAND DEPENDENT**

Despite this streamlined approach, the SAIW remains committed to offering scheduled and non-scheduled regional courses in Cape Town and Durban. A minimum of five students are required per course to run. As soon as the minimum number of people have booked in your region, the course will be scheduled.



# **BOOKINGS & QUERIES** **Contact Details**

## **TRAINING**

training@saiw.co.za

## **PRACTICAL WELDING**

welding@saiw.co.za

## **EXAMINATIONS**

exams@saiw.co.za

## **QUALIFICATION & CERTIFICATION**

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## **COMPANY AUDITS**

iso3834@saiw.co.za

## **TECHNICAL SERVICES**

technical@saiw.co.za

## **LABORATORY TESTING**

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## **PAYMENTS / ACCOUNT**

debtors@saiw.co.za

## **INVOICING**

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## **FEEDBACK**

info@saiw.co.za

## **COMPLAINTS / COMPLIMENTS**

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## **APPEALS**

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## **QUALITY**

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## **FORMAL INTERACTION**

info@saiw.co.za

## **CREDITORS**

creditor@saiw.co.za

## **MANAGEMENT**

## **FINANCE & ADMINISTRATION**

tebello.motsoene@saiw.co.za

## **TRAINING**

confidence.lekoane@saiw.co.za

## **PRACTICAL WELDING**

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## **TECHNICAL SERVICES**

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## **COMPANY AUDIT & CERTIFICATION**

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## **PERSONNEL EXAMINATIONS**

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## **PERSONNEL QUALIFICATION / CERTIFICATION**

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## **EXECUTIVE DIRECTOR**

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# ABOUT Practical Welding

**At the Southern African Institute of Welding (SAIW), we take immense pride in offering a diverse range of hands-on training programs that empower individuals with the knowledge and expertise required to excel in welding. Our practical welding training covers a spectrum of specialised areas and caters to both beginners and experienced welders.**

[www.saiw.co.za](http://www.saiw.co.za)

Please refer to contacts on page 4

# ABOUT **Practical Welding**



## **Welding Essentials**

Welders play a crucial role in joining various metals using electric arc processes, utilising gas shields or flux to protect the molten weld area from contaminating drawings, adhere to standards, and understand the impact of welding on materials.



## **Welding Processes**

Our practical training encompasses popular welding processes, such as Shielded Metal Arc, Gas Metal Arc, Gas Tungsten Arc, Flux Cored Arc, Submerged Arc and Laser Beam Welding. We tailor programmes to individual needs.



## **Applications**

Welders fabricate structures, pressure vessels, and more. They select equipment, adjust variables, and employ cutting and grinding techniques to prepare joints.



## **Training Options**

Our training is flexible, offered week by week at SAIW or in-house, catering to upskilling and qualification needs. We also offer the International Institute of Welding's (IIW) International Welder (IW) qualification program and QCTO-approved welder apprenticeship training.



## **IIW Welding Training Program**

SAIW's IIW Welding Training Program aligns with international standards and addresses the need for highly skilled welders and to achieve global harmonisation in the training, examination and qualification testing of welders.



## **IIW Fast Track Program**

Experience an accelerated journey to an IIW Standard Diploma, ideal for experienced welders, who, depending on the welder, can achieve qualification in one to two weeks, including all training and assessment at a substantial cost savings.



## **Robotic Welding**

Stay ahead with our robotic welding training, enabling you to operate and program welding robots efficiently in industries embracing automation.

SAIW's experienced instructors foster a hands-on learning environment, whether you're pursuing welding as a career or enhancing your skills. We believe that practical welding proficiency is key to success in the welding industry. Join us to embark on a journey of skill development and professional growth in the exciting world of welding.

# Practical Welding

## Course Information

The SAIW is dedicated to providing world-class practical welder training benchmarked against international welding standards and international welder programmes. SAIW therefore strives to ensure that when a candidate exits any of our tailor-made programmes he/she can be assured of good prospects in securing employment with excellent financial rewards.

These highly sought-after courses can be developed to suit company or individual needs and are conducted at the SAIW practical welding school. They can also be offered in-house.

Practical welding courses are tailored to accommodate any welding skill level, from beginner to experienced. Training is thus designed to meet the needs of the individual taking into account the entry skill level and the desired end result. The pace of progress is determined through practical assessments and so the duration will vary from one person to the next.

## Entry Requirements



- ✓ Good hand-eye coordination is the most important aspect to allow one to excel in welding
- ✓ Appropriate health as well as physical and mental capability is also required

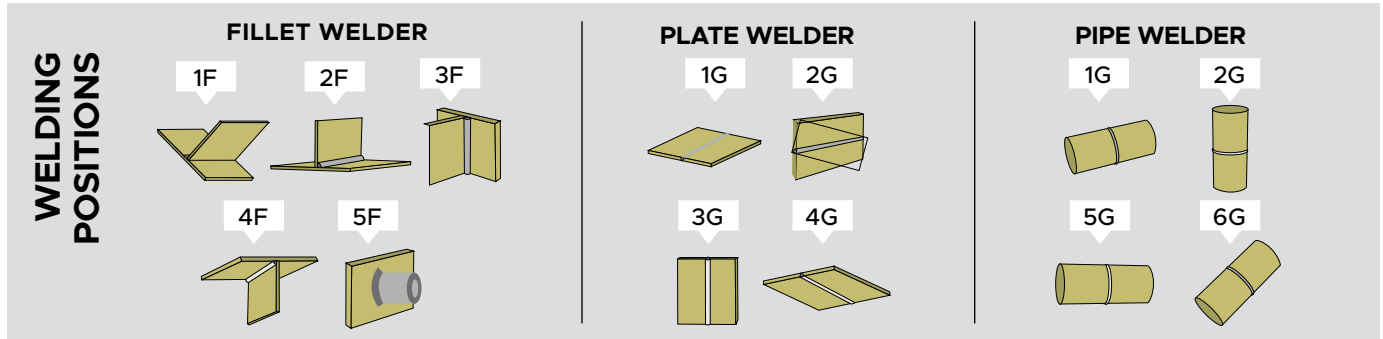
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# Practical Welding

Examples of the welding positions commonly used in welder training can be seen in the diagram below.



## Course Duration

Individuals seeking to learn how to weld or those wishing to acquire a new skill or upskill themselves can attend any Monday to Friday session, once a booking is confirmed.

## Assessment

Outcomes of training will depend on the individual's ability to successfully undertake a Welder Performance Certification test as mandated by the various construction standards i.e. ASME section IX and AWS D1.1 - 6.

## Course Schedule

The price of the course is **R 7 680** per week. (Including VAT)  
The above pricing includes certification testing (Coding) to the desired Construction Standard most applicable to the work. Should only a welder competency test be required, **R3 405** will be charged per welding process, per position, per material.

**A 25% surcharge is applied if the material is stainless steel or aluminium.**



An impressive  
eye for detail.  
Creative.  
Passionate.  
Wildlife  
Photographer.  
Mother.

# I am an International Welder.

We think of welding as a 'dirty' job, of loud factories and workshops, of noise, heat and risk. After all, it's merely a tradesman's job, right? Think again, being a **qualified International Welder** is a highly skilled career and your expert welding skills are one of the most internationally sought after, highly paid and essential trades.

Being an **International Welder** isn't just a trade, it's a craft, an art and a science and you'll be able to work in over 60 countries and do a lot more than simply fusing metals together.

You'll be **building a better world, a better life** for you and **the generations to come.**



## SAIW

Southern African Institute of Welding

Contact SAIW on (011)298 2100  
or visit [www.saiw.co.za](http://www.saiw.co.za)



# ABOUT IIW International Welder



## Course Information

The International Institute of Welding (IIW) has adopted the International Welder (IW) programme to address the need for highly skilled welders and to achieve global harmonisation in the training, examination and qualification testing of welders.

Training and assessment in the IW programme are linked to the requirements of the international standard, ISO 9606 qualification testing of welders. The ISO 9606 standard is widely used in South Africa, but it is important to note that it is similar to other standards, which are relevant in South Africa, eg. ASME IX and AWS D1.1.

The IW programme provides a combination of theoretical knowledge and high-level practical skills assessed by tests of increasing difficulty and by theoretical examinations.

The programme is presented at three levels – fillet,

plate, and pipe welder. Trainees are required to start with fillet welding and must pass a practical competency test before progressing to the next level. Training periods for practical welding vary from person to person.

Experienced welders are not required to undertake unnecessary practical training and may enter the IW programme at any level subject to completing the relevant level practical qualification test including those required for lower levels. A welder fully competent in fillet, plate and pipe welding would undertake the practical test for all three levels and would then undertake only the relevant theory components.

It is important that at each level there is an associated level of theory, plus there may be process specific and material specific theory modules which are applicable.



## Entry Requirements

- ✓ Good hand-eye coordination is the most important aspect to allow one to excel in welding
- ✓ Appropriate health as well as physical and mental capability is required to enter at Fillet Welder level
- ✓ Access to higher levels may be allowed upon passing of relevant theoretical examinations and demonstration of required practical skill







# FAST TRACK International Welder Qualifications FOR EXPERIENCED WELDERS

The SAIW has launched an exciting new streamlined international welder qualification via a fast tracked IIW Standard Diploma for experienced welders.

The introduction of the new format IIW Standard Diploma means that experienced welders can supercharge their training process over one to two weeks including all training, the assessment (examination) and materials at a cost of around **R18 000**, an **88% cost saving!**

## Why launch this type of training?

Most welders have developed a speciality and are highly experienced in one position and one area and do not want to or need to, go through the entire IIW programme again. They, therefore, require a focused qualification that recognises their specific area of expertise.

For example, a structural steel welder would prefer to focus on plate welding theory while tube welders in the petrochemical or power generation sectors are far more familiar with specialised tube welding which forms the bulk of what they do.

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Please refer to contacts on page 4

## **FAST TRACK** **International Welder Qualifications** **FOR EXPERIENCED WELDERS**

### **Focused, fast and cost-effective**

The new streamlined option bypasses the need for experienced welders to go back to basics and complete the full course and provides the highly specialised knowledge and assessment to take experienced welders to the next level.

Upon completion of the course, students get an International Welder certificate which is proof of them having trained in a certain position, process and material.

### **Course structure & criteria**

- The IIW Standard Diploma covers the theory behind a single welding process either fillet, plate or pipe in the form of lectures as well as written and practical tests. If these are passed the student receives an IIW Diploma and a Welding Certificate of record which provides unequivocal proof that the welder complies with the IIW standards.
- To access the course, a student must have been a full-time welder for at least two of the previous three years and possess a valid welder qualification certificate. They also need a CV with the endorsement from a current or previous employer to prove their experience.

### **Reasons to obtain the diploma**

#### **THE KEY BENEFITS OF OBTAINING THE IIW DIPLOMA ARE:**

- Qualification in an international level of welding will make students much more marketable and increase their job prospects locally and allow them to apply for jobs overseas.
- Springboard for more advanced careers in welding inspection and coordination. These jobs add much needed depth of experience on welding projects at ground level and are higher level skills.

### **FUTURE FOCUS**

The SAIW is committed to meeting the requirement from local industry for South African welders with internationally recognised qualifications who can add value to new and maintenance projects in the petrochemical, power generation and oil and gas industries, which will experience an investment boom.

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# IIW INTERNATIONAL Welder

## PRICING –TYPICAL DURATIONS

The estimated time required for the various processes and levels is shown below, but this is dependent on the individual's aptitude.

Should the individual complete a process and level early credit will be given to contribute to the next level or process.

Process	SMAW (MMA) Stick Welding			GTAW (TIG) Argon Welding			GMAW (MAG) & FCAW CO2 & Flux Core		
Level	Weeks	Price	Price/ week/test	Weeks	Price	Price/ week/test	Weeks	Price	Price/ week/test
Fillet	10	R 59 980	R 5 998	8	R 49 830	R 6 228	14	R 83 540	R 5 967
Plate	10	R 61 450	R 6 145	6	R 39 250	R 6 542	10	R 62 490	R 6 249
Tube	6	R 40 400	R 6 733	4	R 28 720	R 7 180			
Tests	6 Test Pieces			5 Test Pieces			**4 or 8 Test Pieces		
Theory***	2	R 12 000	R 6 000	2	R 12 000	R 6 000	2	R 12 000	R 6 000
TOTAL	28	R173 830	R 6 208	20	R 129 800	R 6 490	26	R 158 030	R 6 078

\*Refer to page 47. The total theory training is two weeks for fillet, plate and pipe; for all processes and materials.

\*\*Depending on either process or both processes

\*\*\*International Harmonised Examination

### THE ABOVE PRICING INCLUDES

- ✓ Practical welding training
- ✓ Welder certification testing (coding)
- ✓ Theoretical training and examination fees
- ✓ IIW Diploma after successful completion of the course

### A 25% surcharge is applied if the material is stainless steel or aluminium.

Should only a welder competency test be required, **R3 405** will be charged per welding process, per position, per material.





## EXPLORE THE FUTURE OF WELDING EDUCATION WITH

# Virtual Reality

Welcome to the SAIW's Virtual Welder Welding Academy, where we are revolutionizing welding education through the integration of cutting-edge Virtual Reality (VR) technology. Our aim is to provide an unparalleled learning experience that is not only more cost-effective but also more immersive and effective than ever before.

### Immersive Welding Training

The Welding Academy of the Virtual Welder offers a world-class first solution for immersive welding training. We recognise that welding is a skill that demands both theoretical knowledge and hands-on expertise. That's why our academy combines progressive theoretical and practical modes with hands-on VR sessions to create a comprehensive learning experience.

### Four Levels of Mastery

At our VR Welding academy, students embark on a hands-on journey through four distinct levels, each escalating in complexity. These levels are designed to ensure that students build a solid foundation and progressively advance their skills, ultimately becoming proficient welders. With each level, students gain confidence and proficiency in both MIG/MAG and TIG welding techniques.

### Guidance and Assistance

To aid in the learning process, we provide an assist mode that is available throughout the training. This feature guides students through the intricacies of each level, ensuring they grasp essential techniques and principles. This way, students can learn at their own pace and have the support they need to succeed.

## EXPLORE THE FUTURE OF WELDING EDUCATION WITH

# Virtual Reality

### Shaping the Future of eLearning

Our VR Welder is at the forefront of shaping the future of eLearning. By integrating virtual reality into welding education, we are creating an engaging and dynamic learning environment that prepares students for the real-world challenges of welding. Approximately 50% of your learning time will be spent using our VR Welder, allowing you to gain practical experience and proficiency in a controlled, risk-free environment.

### Blend of VR and Welding School

We understand the importance of practical, hands-on experience in welding. That's why the remaining 50% of your learning time will be spent in our state-of-the-art Welding School. Here, you'll have the opportunity to apply your knowledge in real-world welding scenarios, under the guidance of experienced instructors.

### 30% Discount on IIW International Welder Programme

If you're interested in enrolling in our IIW International Welder programme using this blended approach, you will qualify for a 30% discount. This is an exclusive opportunity to receive world-class welding education at a reduced cost, making it more accessible to aspiring welders.

Join us at the SAIW's Virtual Welder Welding Academy, where we are breaking new ground in welding education. Explore the future of welding training with us and embark on a journey toward becoming a skilled and proficient welder. Your future in welding starts here, with the power of virtual reality and hands-on experience. Enroll today and take the first step towards an exciting and rewarding career in welding.

**SPECIAL  
OFFER**



# IIW INTERNATIONAL Welder

## Theory Modules and Welder Qualification Tests

The theory modules and welder qualification tests are included in the price of the International Welder qualification programme. However, an experienced welder may wish to become an International Welder through recognition of prior learning. In such a case, the theory modules and welder qualification tests can be taken separately to the practical training:

	Course Duration	Pricing (including VAT)
International Fillet Welder – Module A	4 days	R 6 322
International Plate Welder – Module B	3 days	R 4 744
International Pipe Welder – Module C	1 day	R 1 583
Process Specific – Modules SA, ST and SM	1 day	R 1 583
Material Specific – Modules PSS and PAL	1 day	R 1 583
Welder Qualification Tests		R 3 405 each

## COURSE SCHEDULE | IIW International Welder

### JOHANNESBURG

	JHB 01
Week 1	Upon request
Week 2	Upon request





# ABOUT Robotic Welding

Individuals wishing to do robotic arc welding must understand the various issues that will be encountered when moving from manual application methods. Therefore, it is important for the individual to understand what must be controlled and by whom to produce sound welds

The Robotic Welder training course is designed to give the candidate the necessary theoretical and practical knowledge on welding technology by equipping him/her with the skills to manage all aspects of a robotic welding operation including design and programming of the welding task, safety and troubleshooting of the welding operation.

The course also serves as a foundation to more advanced robotic welder training.

## SAIW – Robotic Welding

**JOHANNESBURG**

\*ON REQUEST



# Robotic Welding

## Course Information

### Access Conditions

You should be a holder of a valid Code Certification as a Gas Metal Arc Welder (GMAW) in the 1F and 1G welding positions respectively to gain access to the course. Should you not meet these requirements you need to attend a one-week practical welding course enabling you to weld a Fillet and Plate in the 1F and 1G positions.

**Course duration:** 5 days

### PRICING (Including VAT)

Practical welding (if required)

Corporate Member

Non-Corporate Member

**R 7 400**

**R 16 600**

**R 17 900**

## COURSE CONTENT

Safety  
around a  
robot

1

Welding  
procedures

2

Operating  
the pendant

3

Linear  
motion  
programming

4

Circular  
motion  
programming

5

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# INTRODUCTION TO Laser Welding

## Course Information

The Introduction to Laser Welding course is designed to provide a comprehensive introduction to laser welding technology, focusing on the fundamentals, applications, and hands-on practical training.

Candidates will engage with both theoretical and practical elements of laser welding, equipping them with the necessary skills and knowledge to effectively utilise laser welding in various equipment settings.

Participants will leave the course with a solid foundation in laser welding, equipped with the skills necessary to apply this advanced technology effectively in their respective fields.

## Entry Requirements

- ✓ Good hand-eye coordination
- ✓ Basic understanding of welding principles is beneficial but not mandatory



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# INTRODUCTION TO Laser Welding

**Course duration:** 3 days

**PRICING (Including VAT)**  
**R 4,680**

- The above pricing includes theory, practical and certification testing (coding)
- 25% surcharge is applied if the material is stainless steel or aluminum

## Course Outcomes

By the end of this course, candidates will be able to:

- Understand the fundamental principles of laser welding technology
- Identify different welding processes and their applications
- Safely operate laser welding equipment
- Recognise various materials and their properties in relation to laser welding
- Adjust process parameters for optimal welding results
- Perform hands-on practical laser welding techniques

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### **JOHANNESBURG CAMPUS**

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