INTERNATIONAL WELDING PRACTITIONER (IWP)

COURSE INFORMATION

ENTRY REQUIREMENTS

- ✓ A valid welder qualification certificate to weld in all positions without backing in at least one process, e.g. 6G (H-L045) pipe weld without backing, or horizontal and vertical groove weld without backing.
  Supporting document: Valid welder qualification record (proof of welding within the past 6month) in any welding process and material in 6g pipe or plate 4g and 3g welding without backing except aluminium where backing is allowed.
- ✓ **OR**
  National welder qualification: eg QCTO welder or Red Seal Welder certificate or equivalent within the same qualification ranges as No 1.
  Supporting documents: Welder trade certificate.
- ✓ **AND**
  The recommended minimum age of 20 years including 2 years working experience as plate or pipe welder.
  Supporting documents: CV / reference letter from current or previous employer.

COURSE OUTLINE

This course has both a theoretical and a class practical component and covers:

- ✓ Welding processes and equipment.
- ✓ Materials and their behaviour during welding, construction and design.
- ✓ Fabrication applications engineering.
- ✓ Welder qualification tests will be conducted on completion of the theory and practical training in the 6G positions and PF plate positions, in a choice of processes or materials.

Practical Welder training is carried out on an individual basis with the main processes being MMA, MIG/MAG, FCAW, TIG and Oxy-Fuel welding. Forty (40) hours are reserved to broaden the student's knowledge and skill in other relevant materials within this main process. An additional twenty (20) hours shall be reserved to give the student basic understanding of the possibilities of other processes.

On completion of the course, students will have an understanding of:

- ✓ The characteristics and main components of the most common arc welding power sources
- ✓ The fundamentals of common and special welding processes and their applications
- ✓ Consumables used in the different processes
- ✓ Joint designs and weld configurations for specific materials, thicknesses, accessibility, different loadings and allowable tolerances
- ✓ Basic metallurgy of steels, testing of materials and heat treatments
- ✓ Defects encountered with the various welding processes
- ✓ And more – see dedicated course brochure for additional details

Please refer to contacts on page 14 | www.saiw.co.za



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The Course Is Intended For

Welders who wish to improve their welding skills and knowledge to enable them to take on welding supervision tasks and positions.

COURSE DURATION		
	Practical	5 days
	Theory	10 days
	Exams	4 hours

PRICING (Including VAT)

	Theory Only	Practical Only	Combined
Corporate Member	**R 17 240**	**R 8 711**	**R 25 951**
Non-Corporate Member	**R 18 714**	**R 8 711**	**R 27 425**

*Prices subject to change

Course Schedule | International Welding Practitioner (IWP)

JOHANNESBURG			
WEEK	**COURSE INFORMATION**	**HRS**	**JHB 01**
1	Welding Processes and Equipment	29	27 Sep - 01 Oct
	Materials and their Behaviour During Welding	23	27 Sep - 01 Oct
2	Construction and Design	6	4-8 Oct
	Fabrication, Application and Engineering	28	4-8 Oct
	Examination - Practical Training*		01 Nov
	Examination - Welding Processes and Equipment	1	
	Examination - Materials and their Behaviours During Welding	1	
	Examination - Construction and Design	1	
	Examination - Fabrication, Application and Engineering	1	

* Practical training must be done in the same calendar year in which the theory was completed.

Scan to download the SAIW Course Prospectus App.

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