

# IIW Welding Practitioner

## COURSE INFORMATION



Welding supervisors are tasked with the responsibility of improving the productivity of welders. With the correct training, welding supervisors will provide adequate support for welders, ensuring high quality production at minimal cost. The International Welding Practitioner (IWP) course is ideal for welding personnel who wish to progress their career and improve their knowledge of welding technology and quality control.

### ENTRY REQUIREMENTS

1. A valid welder qualification certificate to weld in all positions without backing in at least one process, eg. 6G (H-L045) pipe weld without backing, or horizontal and vertical groove weld without backing.
2. The recommended minimum age of 20 years including 2 years working experience as a welder.
3. Welder qualification tests will be conducted on completion of the theory in the 6G positions and PF plate positions, in a choice of processes or materials.

### 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.

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.



## THE COURSE IS INTENDED FOR

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

## COURSE DURATION

Theory 10 days

Exams 2 hours

## PRICING (Including VAT)

	Theory Only
Corporate Member	<b>R 14,400</b>
Non-Corporate Member	<b>R 15,135</b>

### PLEASE NOTE

Students may be exempt from practical training provided they hold a welder qualification for multiple materials and can demonstrate experience of all the major welding processes.

## COURSE SCHEDULE | IIW Welding Practitioner

JOHANNESBURG					
WEEK 1 AND 2	HRS	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Welding Processes and Equipment	29	14 - 18 Feb	16 - 20 May	15 - 19 Aug	14 - 18 Nov
Materials and their behaviour during welding	23				
Construction and Design	6	21 - 25 Feb	23 - 27 May	22 - 26 Aug	21 - 25 Nov
Fabrication, application and Engineering	28				
Examination	2				



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