

# INTERNATIONAL WELDING PRACTITIONER (IWP)



## COURSE INFORMATION

### 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.



# INTERNATIONAL WELDING PRACTITIONER (IWP)



## 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 7 days  
Theory 9 days  
Exams 2 hours

### 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.

## PRICING (Including VAT)

	Theory Only	Practical Only	Combined
Corporate Member	<b>R 16,900</b>	<b>R 10,400</b>	<b>R 27,300</b>
Non-Corporate Member	<b>R 18,300</b>	<b>R 10,400</b>	<b>R 28,700</b>

## COURSE SCHEDULE | International Welding Practitioner (IWP)

### JOHANNESBURG

WEEK	COURSE INFORMATION	HRS	JHB 01	JHB 02
1	Welding Processes and Equipment	29	12 - 15 Feb	30 Sep - 03 Oct
	Materials and their Behaviour During Welding	23	16 - 19 Feb	04 - 07 Oct
2	Construction and Design	6	20 Feb	08 Oct
	Fabrication, Application and Engineering	28	21 - 22 Feb	09 - 10 Oct
	Examination - Practical Training*			
	Examination - Welding Processes and Equipment	1		
	Examination - Materials and their Behaviour During Welding	1	23 Feb	11 Oct
	Examination - Construction and Design	1		
	Examination - Fabrication, Application and Engineering	1		

\* Practical training can be done at alternative dates provided the practical is completed in the calendar year in which the theory was completed. No practical exam is taken.