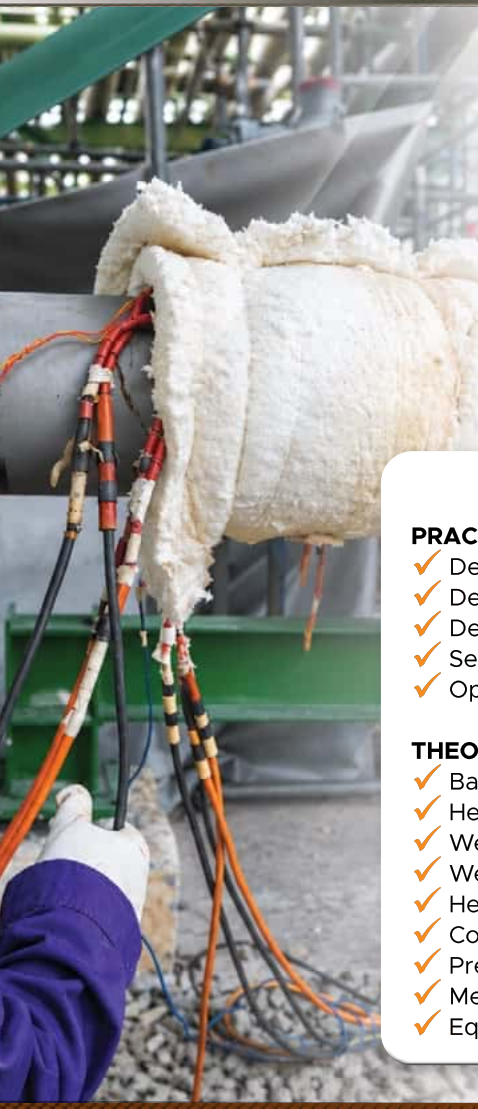
HEAT TREATMENT PRACTITIONER



COURSE INFORMATION

Covers heat treatment requirements for the fabrication of pressure vessels, steam generators and process equipment.

The following fabrication codes are dealt with in this course:

✓ ASME ✓ EN13480 ✓ BS2633 ✓ EN13445 ✓ AWS D1.1

Heat Treatment Practitioner performing local heat treatment of welded fabrications on site, or in a workshop, using resistance heating, will benefit from this course. The course is also suitable for maintenance personnel who are responsible for supervising heat treatment operations. Candidates who preferably have a Grade 10 qualification as well as experience in engineering and/or metal working is recommended.

COURSE CONTENT

PRACTICAL

- ✓ Determining pre- and post-weld heat treatment requirements to codes and standards
- ✓ Determining heating and insulation band widths
- ✓ Determining heating configurations on nozzles
- ✓ Setting up equipment for weld heat treatments – thermocouples, heaters, insulation
- ✓ Operating heat treatment equipment

THEORY

- ✓ Basic metallurgy
- ✓ Heat treatment definitions
- ✓ Welding processes
- ✓ Welding effects on materials – why is heat treatment necessary?
- ✓ Heat treatment cycles, heating and cooling rates, soaking temperatures, soaking times
- ✓ Code and material specification requirements for welding
- ✓ Pre-heat, post-weld heat treatment, normalising, annealing, hydrogen removal
- ✓ Methods of heat treatment
- ✓ Equipment

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

HEAT TREATMENT PRACTITIONER



COURSE DURATION
10 days

PRICING (Including VAT)

Corporate Member	R 30 056
Non-Corporate Member	R 32 438

*Prices subject to change

SUCCESSFUL CANDIDATES WILL:

01 understand the necessity to perform pre- and post-weld heat treatments

02 be able to determine heat treatment cycles in accordance with various codes

03 be able to set up and operate heat treatment equipment

Course Schedule | Heat Treatment Practitioner

JOHANNESBURG, DURBAN, CAPE TOWN					
WEEK	**COURSE INFORMATION**	**HRS**	**JHB 01**	**DBN 01**	**CPT 01**
1	Welding Processes Materials	40	22-26 Nov	*	*
2	Post Weld Heat Treatment Codes	40	29 Nov - 02 Dec	*	*
	Examination - Paper A	**3**	**03 Dec**	*	*
	Examination - Paper B	**3**	**03 Dec**	*	*

* Contact elizabeth.shole@saiw.co.za who will put you on the waiting list.

As soon as there are five prospective students, a course will be scheduled.

Scan to download the SAIW Course Prospectus App.

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