



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 VIII
- BS2633
- AWS D1.1
- EN13480
- EN13445

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

HEAT TREATMENT Practitioner

Course duration: 10 days

PRICING (Including VAT)

Corporate Member **R 28 090**

Non-Corporate Member **R 30 316**

*Prices subject to change

SUCCESSFUL CANDIDATES WILL:

1

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

2

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

3

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	40	23-27 Nov	*	*
	Materials				
2	Post Weld Heat Treatment Codes	40	30 Nov - 03 Dec	*	*
	Examination - Paper A	3	04 Dec	*	*
	Examination - Paper B	3	04 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.

www.saiw.co.za

Please refer to contacts on page 16

Scan to download the SAIW
Course Prospectus App onto
your cellular phone.

