

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
- EN13445
- EN13480
- AWS D1.1

COURSE DURATION

3 days

PRICING (Including VAT)

Corporate Member **R 29,400**

Non-Corporate Member **R 31,800**

SUCCESSFUL CANDIDATES WILL

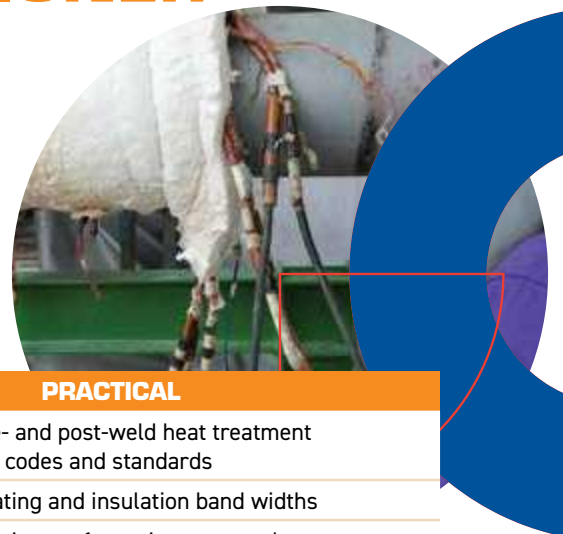
1 understand the necessity to perform pre- and post-weld heat treatments

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

3 be able to set up and operate heat treatment equipment

HEAT TREATMENT PRACTITIONER

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

THEORY	
1	Basic metallurgy
2	Heat treatment definitions
3	Welding processes
4	Welding effects on materials – why is heat treatment necessary?
5	Heat treatment cycles, heating and cooling rates, soaking temperatures, soaking times
6	Code and material specification requirements for welding
7	Pre-heat, post-weld heat treatment, normalising, annealing, hydrogen removal
8	Methods of heat treatment
9	Equipment

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

For the below courses, book by emailing info@saiw.co.za. As soon as the minimum number of people have been booked in your region, the course will be scheduled.

COURSE SCHEDULE | Heat Treatment Practitioner

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

* 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.