

PROCESS PLANT INSPECTION

COURSE INFORMATION

ENTRY REQUIREMENTS

1. Completed Competent Persons Pressure Vessel Core Week (see page 69).

THIS COURSE IS SUITABLE FOR

- In-service Inspectors must have completed Competent Persons Pressure Vessel Core Week (see page 69).
- All types of engineering personnel wishing to gain more insight into in-service inspection requirements and in-service damage mechanisms.

COURSE DURATION

20 days

PRICING (Including VAT)

Corporate Member	R 46,000
Non-Corporate Member	R 49,730

PLEASE NOTE

Process Plant Inspection modules are essential modules for persons wishing to become Competent Persons with unlimited certification.



The Process Plant Inspection course is a follow-on course from the Competent Person Pressure Vessel course.

This course builds on pre-existing inspection knowledge and is focused on areas of knowledge which are needed specifically for process plant equipment.

The course has been specifically designed for the petrochemical industry to address the inspection requirements on a petrochemical refinery and is focused around the best operating standards developed by the American Petroleum Institute (API).

On completion of this course, the candidate may apply for unlimited certification for Competent Persons: Pressure Vessels. Persons intending to complete the SAIW inspection diploma should apply for this course, as it is an essential module for this diploma.

MODULE 1

- API 510** • Pressure Vessel Inspection Code: In-service inspection, rating, repair and alteration
- ASME VIII** • Rules for Construction of Pressure Vessels Div 1 – Calculations to API 510
- ASME IX** • Welding, Brazing and Fusing Qualifications – Procedure and welder qualification
 - Engineering Drawing and Design

MODULE 2

- API 574** • Inspection Practices of Piping System Components
- API 570** • Piping Inspection Code: In-service inspection, repair, and alteration of piping systems
 - ASME B31.3 Process Piping
- API 576** • Inspection of Pressure Relieving Devices

MODULE 3

- API 571** • Damage mechanisms affecting fixed equipment in the refining industry
- API 580** • Risk Based Inspection
- API 572** • Process Equipment Knowledge
 - Inspection of Pressure Vessels
 - Towers, Drums, Reactors, Heat Exchangers and Condensers – Process Equipment
 - Process Diagrams
 - Recommended Repair Methods.

MODULE 4

- API 579:** • Fitness for service
 - Advanced NDT
- API 653:** • Tank inspection repair, alteration and reconstruction
 - Report writing.

COURSE SCHEDULE | Process Plant Inspection

JOHANNESBURG DURBAN			
	HRS	JHB 1	DBN 2
MODULE 1	40	17 - 20 Oct	30 May - 02 Jun
Examination (approx. 1 x 1 hr)	1	21 Oct	03 Jun
MODULE 2	40	24 - 27 Oct	06 - 09 Jun
Examination (approx. 1 x 1 hr)	1	28 Oct	10 Jun
MODULE 3	40	21 - 24 Nov	04 - 07 Jul
Examination (approx. 1 x 1 hr)	1	25 Nov	08 Jul
MODULE 4	40	28 Nov - 01 Dec	11 - 14 Jul
Examination (approx. 1 x 1 hr)	1	02 Dec	15 Jul