



The South African Institution of Mechanical Engineering

Pressure Vessel Design, Construction, Maintenance and Troubleshooting Workshop

Duration - 1 Day : Time - 08h30 – 16h30 (Registration at 08h00)

Manual, teas and lunch provided

CPD Validation Number : SAIMechE-0930-12/18

This workshop will earn delegates 1 credit in Category 1

This workshop is suitable for SAIMechE groups 2 & 3a

**This workshop is developed and presented by [Dr. Herbert De Vries](#),
B.Sc (Mech.Eng), Pr.Eng. G.C.C., MSAIMechE, MBL, DBL**

SAIMechE Group Classification

0 = Non-technical,
e.g., HR, Finance

1 = Candidate (including
GCC) with < 5 years
experience

2 = Professional
(including GCC) with < 15
years experience

3a = Professional and
Appointment with > 15
years experience with
specialist interest

3b = Senior
Management with > 15
years experience

Overview

The workshop considers the codes of practise applicable to pressure vessel design and construction and the actual design process. The maintenance planning and control process is discussed in terms of prevention of pressure vessels breakdowns and monitoring process performance deviations. Safety aspects are taken into account in the design process and the operations of pressure vessels.

Anticipated Outcome and Benefits

- Learning and understanding the applicable design codes of pressure vessels
- Learning how to specify pressure vessels.
- Learning how to design and manufacture a pressure vessel.
- Learning about the selection of materials for pressure vessel manufacture.
- Understanding the systems related to the operations of pressure vessels
- Understanding how to safely operate pressure

[Delegates' Comments](#)

Contents

- Pressure Vessel Design Codes
- Vessel Geometry & Construction
- Strength of Materials
- Vessel Specifications
- Materials of Construction
- Pressure Vessel Design Rules
- Fabrication, Inspection and Testing
- Maintenance planning and control
- Safety aspects considered for pressure vessels

Who Should Attend

Suggested qualification of delegates

- Graduate mechanical and chemical engineers
- Technicians.
- Maintenance and manufacturing managers based on their experience in operation process plant and equipment.

Suggested corporate position of delegates

Top, middle and operations management

Suggested experience of delegates

More than 3 years experience in the operation of process plant and equipment.