



PROCESS AND CHEMICAL ENGINEERING

Piping and Pipeline Codes: ASME B31 and API Standards

5 day course

Classroom, online or in-house

Course overview

Piping and pipeline codes state what may be built, welded, tested and repaired, and an engineer who cannot navigate them relies on somebody else's recollection of what they say. This course covers using them. Delegates work through the structure of the ASME B31 family and the scope of each section, design requirements including allowable stress, wall thickness and pressure design, and the materials and fabrication requirements that follow. Welding qualification under ASME IX is covered, including procedure and performance qualification. Pipeline specific standards for welding and integrity management are addressed, and the course closes on inspection, testing and code compliant repair.

What you will learn

- Navigate the ASME B31 family and identify the applicable section
- Apply allowable stress and pressure design requirements
- Determine wall thickness and account for allowances
- Apply materials and fabrication requirements
- Explain welding procedure and performance qualification
- Apply pipeline welding and integrity management standards
- Carry out code compliant inspection, testing and repair

Who should attend

- Piping and pipeline engineers
- Inspection and integrity engineers
- Welding engineers and inspectors
- Project and construction engineers
- Quality staff verifying code compliance

Course outline

- 01 Code structure and which section applies
- 02 Allowable stress and pressure design
- 03 Wall thickness and allowances
- 04 Materials requirements
- 05 Fabrication and welding requirements
- 06 Welding procedure and performance qualification
- 07 Pipeline welding and integrity standards
- 08 Inspection, testing and code compliant repair

Upcoming dates

Dates	Venue	Format	Fee per delegate
16 to 20 November 2026	Maputo, Mozambique	Classroom	USD 1,325
14 to 18 December 2026	Pretoria, South Africa	Classroom	R19,950
28 December 2026 to 1 January 2027	Cape Town, South Africa	Classroom	R19,950
11 to 15 January 2027	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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