



API 570 Piping Inspection Code: Repair, Alteration, & Rerating of In-Service Piping Systems

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

R15,000

Inspecting in service piping to API 570, and deciding on repair, alteration or rerating with the evidence to support it.

API 570 governs piping that is already in service, which is a different problem from piping being built. The material is degrading, the data is incomplete, and the question is rarely whether a line is perfect but whether it can keep running and for how long. This week works through the inspection intervals, the thickness measurement and the corrosion rate calculations that produce a remaining life, then through what the code permits when the answer is uncomfortable: a repair, an alteration, or a rerate. Calculations are done by hand on real figures, because a number produced by a spreadsheet nobody present can check is not evidence.

Available as classroom, live online, in house.

Who it is for

Piping and plant inspectors, integrity and reliability engineers, maintenance engineers responsible for static equipment, and QA staff preparing for the certification examination.

What you will be able to do

- Apply the inspection intervals and classify piping by service.
- Calculate corrosion rate, minimum thickness and remaining life from real readings.
- Choose inspection methods that will find the damage mechanism actually present.
- Separate repair from alteration from rerating, and follow the route each requires.
- Assemble records that support the decision when it is questioned years later.

The outline

DAY 1

Scope and organisation

What the code covers, and what it does not · Owner, inspector and engineer, and the authority each holds · How it sits against ASME B31.3 and API 574

DAY 2

Damage and where to look

Corrosion mechanisms by service · Injection points, deadlegs and soil to air interfaces · Corrosion monitoring locations, chosen deliberately rather than inherited · Condition monitoring methods, and the limits of each

DAY 3

Thickness and remaining life

Taking a reading that means something · Short term and long term corrosion rates · Minimum required thickness · Remaining life, and the interval it dictates

DAY 4

Repair and alteration

Temporary and permanent repairs · Welded leak box and sleeve repairs · Alteration, and the approval it needs · Examination after a repair

DAY 5

Rerating

When a rerate is the right answer · Calculation, documentation and approval · Records, nameplates, and keeping the change traceable

What you leave with

- Worked remaining life calculations on your own thickness data.
- An inspection plan for one circuit, with intervals and methods justified.
- A rerating file structure that satisfies the code.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Durban, South Africa	R15,000
30 November 2026 to 4 December 2026	Lagos, Nigeria	US\$1,500
7 to 11 December 2026	Nairobi, Kenya	US\$1,500
14 to 18 December 2026	Accra, Ghana	US\$1,500

Fees are per delegate and cover all materials and meals arranged by the delegate. Reg

Register or ask a question

globalaxistraining.co.za/courses/api-570-piping-inspection-code-repair-alteration-and-rerating-of-in
info@globalaxistraining.co.za
+27 72 337 9234

250 Beyers Naude Drive, Rustenburg, North West, 2999, South Africa

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