



INSPECTION, INTEGRITY AND CORROSION TRAINING

In Service Piping Inspection to API 570

5 day course

Classroom, online or in-house

Course overview

A small bore drain on a hot hydrocarbon line, a dead leg nobody listed, a soil to air interface under a road crossing: these are where operating piping leaks, and API 570 exists so that someone looks there on purpose. Delegates start with the scope of the code and the duties of the owner user and the piping inspector, then divide a unit into circuits and place condition monitoring locations where thinning is most likely. They classify lines by consequence, set thickness and external visual intervals, and treat injection points, mixing points and corrosion under insulation as special concerns. Short and long term corrosion rates, minimum required thickness from the pressure design formula and remaining life are calculated from real readings. The programme ends on records, deferral of an overdue inspection and what a defensible piping file contains.

What you will learn

- Explain the scope of API 570 and the duties it places on the owner user and the piping inspector
- Divide a process unit into piping circuits with clear boundaries
- Select condition monitoring locations and thickness measurement points that capture the worst thinning
- Assign piping classes and set thickness and external visual intervals from them
- Identify injection points, mixing points, dead legs and soil to air interfaces as special inspection concerns
- Calculate short and long term corrosion rates, minimum required thickness and remaining life
- Apply the API 570 rules for deferring an inspection due date
- Specify the records that make a piping inspection history complete and auditable

Who should attend

- Piping inspectors and inspection technicians in refineries and chemical plants
- Inspection engineers responsible for piping circuit programmes
- Corrosion engineers who set thickness monitoring locations
- Maintenance planners scheduling on stream piping inspection
- Operations supervisors who own process piping in their unit

Course outline

- 01 Scope of API 570 and the roles it defines
- 02 Defining piping circuits and their boundaries
- 03 Condition monitoring locations and thickness points
- 04 Piping classes and inspection intervals
- 05 Injection points, mixing points and dead legs
- 06 Corrosion under insulation and soil to air interfaces
- 07 Corrosion rate, minimum thickness and remaining life calculations
- 08 Deferral of inspection due dates
- 09 Piping inspection records and the circuit history file

Upcoming dates



Dates	Venue	Format	Fee per delegate
26 to 30 October 2026	Maputo, Mozambique	Classroom	USD 1,325
9 to 13 November 2026	Online	Online	R8,500
25 to 29 January 2027	Windhoek, Namibia	Classroom	R19,950
22 to 26 February 2027	Cape Town, South Africa	Classroom	R19,950

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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa