



INSPECTION, INTEGRITY AND CORROSION TRAINING

Integrity Operating Windows and Inspection Planning

5 day course

Classroom, online or in-house

Course overview

A crude unit can run for a year with every inspection on schedule and still suffer accelerated damage because the desalter outlet chloride crept above a value nobody had written down. API 584 calls such values integrity operating windows. Delegates learn to derive IOWs from the degradation expected in each circuit, classify them as critical, standard or informational limits, and set the response time and action when a parameter drifts. They link limits to process variables such as temperature, wash water rate, pH and hydrogen partial pressure, assign ownership between operations, process engineering and inspection, and build the alarm and notification path. The final sessions show how a recorded exceedance changes the assumed deterioration rate and triggers revised inspection dates and scope. Delegates leave able to write and maintain an IOW register for their own unit.

What you will learn

- Explain the purpose of integrity operating windows as described in API 584
- Derive operating limits from the degradation expected in each equipment circuit
- Classify limits as critical, standard or informational
- Set response times and required actions for each limit
- Assign ownership of limits between operations, process engineering and inspection
- Design the alarm, notification and escalation path for an exceedance
- Evaluate how an exceedance alters deterioration rates and inspection dates
- Prepare and maintain an IOW register

Who should attend

- Process engineers in refining and petrochemical units
- Inspection and corrosion engineers
- Operations superintendents and shift supervisors
- Process safety and reliability engineers
- Control room technologists configuring alarms

Course outline

- 01 Why integrity operating windows exist
- 02 Linking damage to controllable process variables
- 03 Critical, standard and informational limits
- 04 Response times and required actions
- 05 Ownership and the operations interface
- 06 Alarm and notification design
- 07 Exceedance reporting and investigation
- 08 Feeding exceedances into inspection dates and scope
- 09 Building and maintaining the IOW register

Upcoming dates



Dates	Venue	Format	Fee per delegate
19 to 23 October 2026	Online	Online	R8,500
14 to 18 December 2026	Durban, South Africa	Classroom	R19,950
18 to 22 January 2027	Pretoria, South Africa	Classroom	R19,950
8 to 12 March 2027	Casablanca, Morocco	Classroom	USD 1,325

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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