



# Technical Integrity Management in Refineries

Consultant / Trainer:

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Gradually refinery owners have come to recognize that the single most important characteristic of an excellent refinery is the quality of their Asset Integrity Management. Functional Integrity, Legal integrity and Technical Integrity are all part of this, but the current course focusses on Technical Integrity. The “**Petrogenium**. Technical Integrity Management in Refineries” course provides insight and guidance by systematically exploring the many threats that may exist or arise in refinery units. That, and the methods to manage these threats such as Risk Based Integrity Management, Compliance Management and Management of Change.

Over many years **Petrogenium**.’s experts have collected and mobilized extensive expertise in the integrity management methods of refineries and individual refinery units; all this expertise is incorporated in the course. The course is highly interactive and should be valuable for most of the staff at refineries, especially for those working in refineries with perennial integrity issues.

### Participants

This **Petrogenium**. course can be tailored for basic awareness of inexperienced staff or for intermediate or experienced personnel. Furthermore the course can be customized for a specific refinery, plant or unit. The option for post-course consultancy/help-desk support is also available.

Participants may include: operators, inspectors, integrity-, process- and project engineers and service company reps; engineers & managers responsible for the reliable and safe design and operation of crude units. Non-refinery personnel, e.g., service providers, chemical vendors and engineering contractors. Those involved in the design of crude units or equipment for crude units may also benefit.

### Learning Objectives

The challenges of corrosion and degradation and the barriers that can be applied through design, materials selection, process design and -control. How to prioritize and focus resources using a risk based approach; how to effectively operate a refinery safer, more reliably and more sustainably.

## Programme

### 1<sup>st</sup> & 2<sup>nd</sup> half day

- Integrity Management and its Culture
- Threats and Barriers
- Design
- Materials
- Process design
- Operation and IOWs
- Key Corrosion Indicators

### 3<sup>rd</sup> & 4<sup>th</sup> half day

- Non-intrusive inspection
- Intrusive inspection
- Procedures, Codes and Standards
- Fitness-for-Purpose
- Risk based methodologies
- Compliance
- Management of Change