

Consultant/Trainer: **Dr. Henk Helle.**

Robust integrity management and the culture underneath it is the single most important characteristic of the world's best refineries. Achieving this is a constant challenge for refinery management and staff alike, but clearly, to meet that challenge, technology, money and algorithms can only achieve a fraction of what is needed. Integrity is achieved primarily through a shared understanding of the nature of many threats to equipment integrity and a shared perception of the ways these threats can be controlled: established, contained, neutralized or mitigated.

Integrity management is not only about control; it also requires assurance of control, which Risk-based Integrity Management can deliver.

The course will address the threats to static equipment in the more vulnerable and critical refinery processes such as atmospheric and vacuum distillation, hydro-processing, cracking as well as the peripheral and utility processes such as gas treating, sour water stripping, sulfur recovery and steam boilers. This is achieved through a step by step explanation of the corrosion mechanisms and the physical and chemical actors that drive them. Qualitatively and where possible, quantitatively.

Participants

This course is of interest to Technologists, Process, Maintenance and Corrosion engineers, Inspectors, Integrity Managers and Technicians, as well as Engineering Contractors.

Those involved in the design of refinery units may also benefit. The information in the seminar can generate insight in ways to make better, more robust equipment for refineries. The course may be useful to oil traders and suppliers of refinery chemicals

Learning objectives

The participants will learn to understand the methods of control through design, material selection, operation and inspection and how to implement all that in a refinery ecosystem. The practical aspects of the common and less common corrosion problems are illustrated with numerous field cases.

Programme – Outline (3 days)

Technical Integrity Management	Risk-based Integrity Management
Crude units, threats and mitigation	IOWs, Key Corrosion Indicators
Hydroprocessing units, threats and mitigation	Non-intrusive Inspection
Cat crackers, threats and mitigation	Internal visual inspection
Amine, SWS and SRU's, threats and mitigation	Fitness for Purpose evaluation
Steam boilers, threats and mitigation	Risk Based Inspection
CUI, detection and control	Corrosion Control Documents

Because Experience Matters

Contact

Gary Hays

Organisation & People Practice Lead

Phone number: +31 (0) 6 55 838 162

Gary.Hays@petrogenium.com

Anna Kryzhanovskaya

Client Manager

Phone number: +31 (0) 6 30016327

Anna.Kryzhanovskaya@petrogenium.com

www.petrogenium.com