SPECIALIZED COURSE
MAINTENANCE AND SHUTDOWN IN THE PROCESS INDUSTRY

13 – 16 September 2021
GHENT | HOTEL MONASTERIUM POORTACKERE

DAY 03
WEDNESDAY 15 SEPTEMBER 2021

Asset integrity – Preparation & execution
Asset integrity: rotating equipment
Dirk Bracke, Geert Verlinden
More than lubrification
Maintenance during operations
TotalEnergies
Applied strategy
From preparation and planning towards a scheduled execution
Jos Vankevelaer
Be prepared for the unforeseen

DAY 04
THURSDAY 16 SEPTEMBER 2021

Innovation and plant turnover
Environment-driven degradation mechanisms of materials
Prof. Dagmar D’hooge
Dr. Yoshi Marien
Innovation in materials
Plant hand-over
TotalEnergies
An essential step
Innovation in maintenance and shutdown
Tom Jacobs
Organizational and technical innovations


Limitation: The Module is limited to 20 participants, because a high level of interaction is foreseen.
Programme

Maintenance and Shutdown is an utmost important aspect in process safety. Over the last years we faced the evolution towards asset integrity management driven by performance. Risk based strategies are the corner stone towards an effective maintenance programme. Shutdowns are key in upgrading and revitalizing our installations. During this 4-day specialized course, we focus on all the key aspects related to maintenance and shutdown, starting with discussing degradation mechanisms of materials. The course is taught by academics and industry specialists from various leading companies in our industry, tackling each in their discipline a key aspect in maintenance and shutdown management.

Lecturers

- Prof. Ludwig Cardon, Department of Materials, Textiles and Chemical Engineering, UGent
- Prof. Dagmar D’hooge, Professor on Polymer Engineering and technology, UGent
- Prof. Tom Depover, Department of Materials, Textiles and Chemical Engineering, UGent
- Tom Jacobs, Evonik
- Werner Van Acker, Evonik
- Piet Van Doren, Borelais
- Jos Vankevelaer, BASF
- Peter Verdonck, Covestro
- Geert Verlinden, Dirk Bracke, Ineos
- TotalEnergies

DEAR MEMBER,

essenscia would like to present the details of the specialized course on maintenance and shutdown in the process industry, organized by the essenscia process safety academy. For additional information concerning these topics please feel free to contact Mr. Geert Boogaerts (+32 476 906 663 | gboogaerts@essenscia.be).

This specialized course offers the essentials of maintenance and shutdown in the process industry as the foundation for process safety.

Attendees

Professionals with industry experience for whom understanding and applying maintenance and shutdown will be an integral part of their jobs and who would benefit from an overall and in-depth view on maintenance and shutdown in the process industry.

The governance board and steering committee of essenscia Process Safety Academy

- MSc. Ivan Pelgrims, President Process Safety Academy, Director, Evonik
- MSc. Koen Colpaert, HSE Group Process Safety Manager, Borealis
- MSc. Benny Ghoos, Senior Operations Support Manager, Johnson & Johnson
- MSc. Nico Hertoghe, ExxonMobil Research & Engineering
- Phd. MSc. Pol Hoorelbeke, Vice president Safety, Total
- MSc. Marnix Mahieu, Managing Director, Kronos
- MSc. Dick Oomen, AMPP Site Manager ExxonMobil
- MSc. Frank Quaeyhaegens, Head of Technical Services, Covestro
- MSc. Stephen McGrady, EHS BL Director – GSK UK
- MSc. Geert Vercruysse, Process Safety Expert, BASF
- MSc. Jan Weckx, Antwerp Process Safety Lead, Bayer Agriculture
- MSc. Filip De Proft, EHS director Campus Belgium, Johnson & Johnson Agriculture

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DAY TO DAY OVERVIEW OF THE PROGRAMME:
08:30 – 18:00

**MONDAY 13 SEPTEMBER 2021**

**Introduction**
- Welcome speeches
  - Geert Boogaerts
    Maintenance and Shutdown: the corner stone for process safety
  - Prof. Ludwig Cardon
    An academic point of view
- Preventive maintenance
- Standards and legislation
  - Important to keep in mind
  - Corrosion under insulation
- Piet Van Doren
  A sniper to catch

**DAY 02**

**TUESDAY 14 SEPTEMBER 2021**

**From asset integrity to safe design, analysing the root cause.**
- Environment-driven degradation mechanisms of materials
  - Prof. Tom Depover
    The starting point
  - Werner Van Acker
    A global framework
- The international standard (Physical Asset Management, ref ISO 55.000) applied in the chemical industry
- Integrity operations window and Reliability elements
  - Peter Verdonck
    Root causes and large volume elements
- Safe design
  - Werner Van Acker
    The ultimate solution

**HOST CITY**
Ghent

**LOCATION**
Hotel Monasterium
PoortAckere
Oude Houtlei 56

**LUNCH**
Business menu 3-course diner

**TOTAL REGISTRATION FEE**
€2200
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  Organizational and technical innovations


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The essenscia Process Safety Academy and the essenscia Chair Safety Engineering organize a 4-day course on Maintenance and shutdown in the process industry.

**PARTICIPANT**

- **FIRST NAME**
- **LAST NAME**
- **EMAIL**
- **COMPANY**
- **FUNCTION**

- [ ] Member of Process Safety Academy
- [ ] Member of essenscia

**THE INVOICE OF €2200 (TOTAL REGISTRATION FEE, EXCL. VAT) CAN BE SENT TO**

- **COMPANY**
- **STREET AND NUMBER**
- **POSTAL CODE AND CITY**
- **V.A.T.**
- **PURCHASE ORDER**

**SIGNATURE OF THE PARTICIPANT**

To be sent by mail to Ms. Michèle Celis (mcelis@essenscia.be)

For additional information please feel free to contact Mr. Geert Boogaerts (+32 476 906 663 | gboogaerts@essenscia.be) or Ms. Michèle Celis (mcelis@essenscia.be).