

The background features a blurred image of several people in business attire standing in a meeting room, overlaid on a large diagonal graphic that splits the page into orange and teal sections.

ADVANCED MASTER CLASS ON PROCESS SAFETY

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13 – 17 January 2025

ANTWERP | HYLLIT HOTEL ANTWERP



DEAR MEMBER,

essenscia herewith presents the details of the Advanced Master Class on Process Safety organized by its Process Safety Academy. For additional information, please contact Mr. Geert Boogaerts (+32 476 906 663 | gboogaerts@essenscia.be). To register, [please click here](#).

Programme

Process safety is a specific discipline within the organization of a company. The level and quality of process safety management determines the success of the organization. The essenscia Process Safety Academy aims, with this 5-day 'Advanced Master Class on Process Safety', to provide professionals with a process safety course offering the essentials and pointing out the pitfalls of process safety. The lectures are taught by academics and specialists in their discipline. A certificate will be granted at completion of the course. For each day, a syllabus is provided by the organization.

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. Inge Van Der Meeren**, AMPP Plant Manager ExxonMobil
- ✓ **MSc. Frank Quaeyhaegens**, Head of Technical Services, Covestro
- ✓ **MSc. Stephen McGrady**, EHS BL Director, GSK UK
- ✓ **MSc. Geert Vercruyse**, Process Safety Expert, BASF
- ✓ **MSc. Jan Weckx**, Antwerp Process Safety Lead, Bayer Agriculture
- ✓ **MSc. Filip De Proft**, EHS director Campus Belgium, Jnj Innovative Medicines
- ✓ **MSc. Kris Deboutte**, Global SHE Manager, Ineos
- ✓ **MSc. Gunther Van Cauwenberge**, Vice President of Global Operations Intermediates, Envalor
- ✓ **MSc. Ignace Hooftman**, Managing Director, Lanxess Belgium

Past Attendees

Ajinomoto Omnichem, BASF, Borealis, DuPont, ExxonMobil, Eval, Evonik, GE Water & Process Technologies, Indaver, Umicore, INEOS Manufacturing Belgium, Janssen Pharmaceuticals, JSR Micro, Kronos, LANXESS, Bayer, Monument Chemical, Nippon Shokubai, Noord Natie, Proviron, Prayon, Solvay, Styrolution, Tessenderlo Chemie, Vopak.

The governance board and steering committee of the Process Safety Academy recommend this course as

«A strong introduction and an appreciated refreshment concerning process safety».



Target Audience

Professional engineers with industry experience for whom understanding and applying process safety thinking is an integral part of their job and who would benefit from a holistic view on process safety for deepening the expertise in their roles and for their career development (e.g. operations, engineering, maintenance, inspection, safety professionals...).






DAY TO DAY OVERVIEW OF THE PROGRAMME :
08:00 – 17:30

DAY 01



MONDAY 13 JANUARY 2025

Introduction to process safety

-  **Welcome speech**
MSc. Els Paredis, Vice President EHS BASF Antwerp, Environment & Energy Policy, BASF Antwerpen
Still a need?
-  **Introduction to process safety : Incidents & legislation that define process safety**
MSc. Geert Boogaerts, Senior Advisor Process Safety, essenscia
Are things improving?
-  **Process Safety Management Systems**
Phd. MSc Pol Hoorelbeke, Vice president Safety, Total, Brussels, Visiting professor at the South China University of Technology, Fellow of the VUB
An integrated safety management system
-  **Product Safety**
Phd. MSc. Kristel Bernaerts, Professor, CREaS, KU Leuven, Leuven
Do we understand the intrinsic hazards?
-  **Organizational and Human Factors**
Phd. MSc. Herman Van Roost, General Manager Feedstock and Mechanical Recycling, Styrenics Circular Solutions
A practical point of view

" Very clear approach "

BASF

" Good course "





SOLVAY

DAY 02



TUESDAY 14 JANUARY 2025

Qualitative and quantitative risk analysis

-  **Hazard & Operability Study**
MSc. Grainne Kelly, Clwyd Associate, Leicestershire
Use and pitfalls of HAZOP
-  **Layers of protection analysis**
MSc. Nico Hertoghe, ExxonMobil Research & Engineering
Use and pitfalls of LOPA
-  **PHA / sub selection / API 752 - Temporary Housing**
MSc. Peter Wittevrongel, Safety Engineer, Notified Expert, Vinçotte, Vilvoorde
A risk based approach
-  **Global overview of QRA**
MSc. Bob Gorrens, Notified Expert, SGS Belgium, Antwerp
Towards a dynamic instrument in safety reporting?

" Good concept and very useful for training within the organisation "

GE WATER

HOST CITY
Antwerp

LOCATION
Hyllit Hotel
De Keyserlei 28-30

LUNCH
3 course business menu

REGISTRATION FEE
Member: 3000€
Non-member: 3200€

REGISTRATION LINK
[click here](#)



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:00 – 17:30

DAY 03



WEDNESDAY 15 JANUARY 2025

Explosion safety



(Gas) Explosion Characteristics

Phd. MSc. Filip Van den Schoor, M-tech, Hasselt, visiting professor KU Leuven
Essential elements in risk assessment



Dust Explosion Characteristics and Ignition Sources

Phd. MSc. Filip Verplaetsen, Adinex, Herentals, visiting professor KU Leuven and Ghent University
Essential for prevention



Vapour Cloud Explosion and Explosion Modelling

Phd. MSc. Filip Van den Schoor, M-tech, Hasselt, visiting professor KU Leuven
The number one cause?



Explosion Prevention and Protection – Atex directives

Phd. MSc. Filip Verplaetsen, Adinex, Herentals, visiting professor KU Leuven and Ghent University
What is emphasized by the legislation?

“ A good eye opener ”

LANXESS

DAY 04



THURSDAY 16 JANUARY 2025

Competence in operation & safety in unit operations



Introduction to process safety engineering

Phd. MSc. Geert Vercruysse, Process Safety Engineer, BASF Antwerp, Visiting professor at Ghent University and at KU Leuven

Safety engineering: the corner stone of intrinsic safety



Managing reactive chemistry hazards

Phd. MSc. Wim Dermaut, R&D Manager Chemical Process Development, Agfa Labs, Antwerp
A scenario based approach



Safety Integrity Level

MSc. Erik Dom, SIL and HAZOP expert, Nero Engineering, Antwerp
A reliable device on a known risk

“ Very interesting for engineers ”

KRONOS

DAY 05



FRIDAY 17 JANUARY 2025

Mechanical integrity: the first layer of protection



Mechanical integrity

MSc. Thomas Beirnaert & MSc. Jeroen Moens, Quality Inspection & Materials, BASF
A code based approach



Corrosion

MSc. Erik Thomas, Corrosion engineer, Degradation expert, Metalogic, Leuven
An important threat



Measuring, monitoring and inspection

MSc. Kristof Timmermans, Inspection engineer, Metalogic, Leuven
A solution for everything?



Closing speech

MSc. Ivan Pelgrims, Managing Director, Evonik Antwerp, Board Member of essenscia

Global evaluation, feedback and open discussion



Granting of certificates

MSc. Ivan Perigrims, President Process Safety Academy, Director, Evonik, Board member essenscia

“ Good mix of academic and pragmatic ”

INEOS