



ADVANCED MASTER CLASS ON PROCESS SAFETY

.....

15 - 19 January 2024

ANTWERP | HYLLIT HOTEL ANTWERP



DEAR MEMBER,

essencia would like to present the details of the Advanced Master Class on Process Safety organized by its Process Safety Academy. For additional information concerning these topics please feel free to contact **Mr. Geert Boogaerts** (+32 476 906 663 | gboogaerts@essencia.be)

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 essencia 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 essencia 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 Quaeys**,
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 &
JohnsonAgriculture
- ✓ **MSc. Kris Deboutte**, Global SHE Manager, Ineos
- ✓ **MSc. Gunther Van Cauwenberge**,
Managing Director Lanxess Performance Materials JV Envalior
- ✓ **MSc. Ignace Hooftman**, Managing Director Lanxess Belgium

Past Attendees

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

The governance board and steering committee of 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 15 JANUARY 2024

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, Business Development, Total , Belgium
A practical point of view

“Very clear
approach”

BASF

“Good course”

SOLVAY

DAY 02



TUESDAY 16 JANUARY 2024

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 Antwerp
De keyserlei 28-30

LUNCH

3 courses diner

TOTAL REGISTRATION FEE

€ 2.900



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:00 – 17:30

DAY 03



WEDNESDAY 17 JANUARY 2024

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 18 JANUARY 2024

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 19 JANUARY 2024

Mechanical integrity: the first layer of protection



Materials & corrosion expert

MSc. Thomas Beirnaert, Quality, Inspection & Materials BASF



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 essencia

Global evaluation, feedback and open discussion

Granting of the certificates by **Ivan Pelgrims**,
President Process Safety Academy, Director, Evonik
Board member essencia

“Good mix of academic and pragmatic”

INEOS

15 - 19.01.2024

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ADVANCED MASTER CLASS
ON PROCESS SAFETY

SUBSCRIPTION FILE

The essenscia Process Safety Academy and the essenscia Chair Safety Engineering organize a 5-day Advanced Course on Process Safety.

PARTICIPANT

FIRST NAME

LAST NAME

EMAIL

COMPANY

FUNCTION

Member of Process Safety Academy

Member of essenscia

THE INVOICE OF €2900 (TOTAL REGISTRATION FEE, EXCL. VAT) CAN BE SENT TO

COMPANY

STREET AND NUMBER

POSTAL CODE AND CITY

V.A.T.

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).

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where chemistry meets life sciences



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