

ADVANCED COURSE ON PROCESS SAFETY IN THE LIFE SCIENCE INDUSTRY

.....
13 – 17 March 2023
LEUVEN | FACULTY CLUB



DEAR MEMBER,

essenscia would like to present the details of the 'Process safety in the life science industry' advanced course 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)

Programme

This advanced course wants to increase process safety capabilities within the life science industry. To achieve this, the course was co-developed with partnering tier-1 pharmaceutical companies. The essenscia process safety academy aims, with this 5-day 's advance course, to provide industry professionals with a solid basis and wide understanding of the intrinsic hazards, possible risks and appropriate safeguards that are specific to their life science industry. Therefore, also the interaction with the biosafety domain will be covered. The lectures are given by academics and industry specialists in their discipline. After the course a certificate will be granted at completion of the course. And for each day a syllabus is provided by the organization.

Governance board and steering committee

- ✓ **MSc. Ivan Pelgrims**,
President essenscia Process Safety Academy,
General Manager Evonik, Board Member of essenscia
- ✓ **MSc. Yves Verschueren**, Managing Director essenscia
- ✓ **MSc. Frédéric Druck**,
Managing Director essenscia wallonie and brussels
- ✓ **MSc. Ann Wurman**
Director essenscia flanders
- ✓ **MSc. Peter Jacobs**, Safety & Health Manager,
Ajinomoto Bio Pharma Services
- ✓ **MSc. John Kelleher**
VP EHS at GlaxoSmithKline
- ✓ **MSc. Filip De Proft**,
EHS Director Campus Belgium Johnson&Johnson

Attendees

Professional engineers with experience in the life science industry and from whom an understanding and correct application of process safety thinking is expected to identify hazards and potential risks from occurring by assuring that the right level of control is in place and monitored. This course will help them to deepen the expertise in their roles (e.g. operations, engineering, maintenance, inspection, safety professionals...).

The governance board and steering committee of the essenscia Process Safety Academy recommend this course as :
«A strong introduction, to process safety in the Life Science Industry».



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:00 – 17:30

DAY 01



MONDAY 13 MARCH 2023

Process Safety Management and specific risks in the Life Science Industry



Welcome speeches

Olivier Monami, EHS director GSK

The business case for PSM



Introduction to Process Safety in the Pharmaceutical Industry

Steve McGrady, GlaxoSmithKline

Are things improving?



Process Safety Management Systems, a generic approach

Geert Boogaerts, process safety academy, essenscia

An integrated safety management system



Specific Utility Risks: boilers, steam, pressure

Nicolas Jouret, Engie

Do we understand the intrinsic hazards?



Hazardous gasses used in pharma: nitrogen, oxygen, ammonia

Styn Goelen, Air Liquide

Do we know them well enough?

“Process safety
needs integration
in the day to day
operations”

JOHNSON & JOHNSON

DAY 02



TUESDAY 14 MARCH 2023

Intrinsic Hazards of our molecules and processes



Intrinsic hazards in the API development and production

Christine Fannes, Johnson & Johnson

What can we measure?



Explosion Hazards and ATEX

Mario Versteels, IFF

Approach in practice



Static Electricity

Joseph-Marc Francois, Dekra

A sniper to look for



Explosion Safety: Dust explosion

Frederic Norman, ADINEX

It can happen in our industry

HOST CITY

Leuven

LOCATION

Faculty Club
Groot Begijnhof 14,
3000 Leuven

LUNCH

3 course menu



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:00 - 17:30

DAY 03



WEDNESDAY 15 MARCH 2023

Risk Analysis in the Life Science Industry



Risk Analysis: HAZOP

Geert Boogaerts, process safety academy, essenscia
Pitfalls



Risk Analysis: HAZOP, WHAT-IF, LOPA, SIL

Charly Picard, Johnson & Johnson
What to use and when to use it?



Workshop: practical exercise on HAZOP

Danielle Keijzer, Billfinger
In practice



Functional Safety

Hidde Hekker, Process Automation Solutions
What can be automated?

“The aim of this short-course is to build additional process safety capability across our Engineering and EHS teams”

GLAXOSMITHKLINE

DAY 04



THURSDAY 16 MARCH 2023

Safeguards in the Life Science Industry



Maintenance and Reliability

Steve McGrady, GlaxoSmithKline
The relationship between reliability and risk



Mechanical and Structural Integrity

Metalogic
Can we trust the equipment?



Human & organisational factors

Steve McGrady, GlaxoSmithKline



Operational Discipline and Controls

Steve McGrady, GlaxoSmithKline
What to watch out for?

DAY 05



FRIDAY 17 MARCH 2023

Process Safety and Biosafety



Introduction to Biosafety

René Custers, VIB
Creating a safe and responsible work environment



Process Safety meets Biosafety

Michel Cereghetti, GSK
Industry approach



Strategic activities of the life sciences industry

Jan Van der Goten, Johnson & Johnson
Life visualization



Closing speech and granting of the certificates

Jan Van der Goten, Johnson & Johnson

REGISTRATIONS

www.essenscia.be/opleidingen/process-safety-academy

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 €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).



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