



ADVANCED COURSE ON PROCESS SAFETY IN THE LIFE SCIENCE INDUSTRY

18 – 22 November 2024
LEUVEN | FACULTY CLUB



DEAR MEMBER,

essenscia herewith presents the details of the advanced course on 'Process Safety in the Life Science 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).

To register, **please click here**.

Programme

This advanced course aims to increase process safety capabilities within the life science industry. To achieve this, the course has been co-developed in partnership with tier-1 pharmaceutical companies. With this 5-day advanced course, the essenscia Process Safety Academy provides industry professionals with a solid basis and wide understanding of the intrinsic hazards, possible risks and appropriate safeguards that are specific to the life science industry. Hence, also the interaction with the biosafety domain is covered in this course. The lectures are given by academics and industry specialists in their discipline. For each day, a syllabus is provided by the organization. A certificate is granted at completion of the course.

Governance board and steering committee

- ✓ **MSc. Ivan Pelgrims**,
President, essenscia Process Safety Academy, Director, Evonik
- ✓ **MSc. Yves Verschueren**,
Managing Director, essenscia
- ✓ **MSc. Frédéric Druck**,
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, GSK
- ✓ **MSc. Filip De Proft**,
EHS Director, Campus Belgium, JnJ Innovative Medicines
- ✓ **MSc. Vicky Bruggeman**,
General Manager, Janssen Supply Chain Geel, JnJ Innovative Medicines

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».

Attendees

This course has been designed for 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...).



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:30 – 17:00

DAY 01



MONDAY 18 NOVEMBER 2024

Process Safety Management and Intrinsic Hazards in the Life Science Industry

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

JnJ Innovative
Medicines



Welcome Speech

Olivier Monami, EHS director, GSK

The business case for PSM



Introduction to Process Safety in the Pharmaceutical Industry

Steve McGrady, GSK

Specific challenges of the sector



Process Safety Management Systems: A Generic Approach

Geert Boogaerts, Process Safety Academy, essenscia

An integrated safety management system



Intrinsic Hazards in API Development and Production

Christine Fannes, JnJ Innovative Medicines

What can we measure?



Hazardous Gasses used in Pharma: Nitrogen, Oxygen, Ammonia

Dan Benton, GSK

Do we know them well enough?

DAY 02



TUESDAY 19 NOVEMBER 2024

Specific Risks of our Molecules and Processes



Static Electricity

Joseph-Marc Francois, Dekra

A sniper to look for



Explosion Safety: Dust Explosion

Frederic Norman, ADINEX

It can happen in our industry



Explosion Hazards and ATEX

Mario Versteels, IFF

Approach in practice

HOST CITY

Leuven

LOCATION

Faculty Club
Groot Begijnhof 14
3000 Leuven

F&B

morning coffee at 8am
3 course menu at noon

REGISTRATION

[register here](#)



DAY TO DAY OVERVIEW OF THE PROGRAMME :

08:30 – 17:00

DAY 03



WEDNESDAY 20 NOVEMBER 2024

Risk Analysis in the Life Science Industry



Risk Analysis: HAZOP

Geert Boogaerts, Process Safety Academy, essencia
Pitfalls



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

Charly Picard, Jnj Innovative Medicines
What to use and when to use it?



Workshop: practical exercise on HAZOP

Danielle Keijzer, Jnj Innovative Medicines
In practice

DAY 04



THURSDAY 21 NOVEMBER 2024

Safeguards in the Life Science Industry



Maintenance and Reliability

Steve McGrady, GSK

The relationship between reliability and risk



Mechanical and Structural Integrity

Christine Buelens, METALogic

Can we trust the equipment?



Human & Organisational Factors

Steve McGrady, GSK

Performance is key



Operational Discipline and Controls

Steve McGrady, GSK

What to watch out for?

DAY 05



FRIDAY 22 NOVEMBER 2024

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



Instrumental Safety & Biosafety

Jaspreet Chana, ERM

How to safeguard



Strategic Activities of the Life Sciences Industry

Jan Van der Goten, Jnj Innovative Medicines

Life visualization

Granting of certificates

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

GSK