

PROCESS SAFETY EXCELLENCE



Demanding worlds

There are continuously new developments in the world which provide new challenges to the process- or safety professionals: new (internal or external) guidelines and regulations, increased stakeholder awareness, elevated supervision of authorities, insurance company involvement or own desire for more control on process safety.

The different stakeholders have made the role of the process safety professional more complex. Therefore the need emerges to gain overview and ability to influence process safety on wider areas rather than focussing solely on process hazard studies like HAZOP.

Therefore Tebodin offers a new holistic approach towards process safety, called process safety excellence (PSX). Our

Market Energy sector, Chemical industry, Pharmaceutical, Industrial, Food, Feed, Agro and Beverages

Location Europe, North and South America, Middle East

Scope of work

- Elementing on PSX
- Ranking on Elements
- Process Safety Turnaround

modular approach allows for an integrated, cost-efficient and customized program, which ensures sufficient focus on all relevant process safety topics, and increased insight and focus on those topics that are lacking or are of specific interest.

Process Safety

The pioneering of process safety has been dominated last decades by a limited group of (mainly: multinational) companies which are front runner in this field. Their experiences and learnings are spread over other companies in the industries. These spin-offs led to an increase on process safety throughout the field.

A gap occurs, however, when these follower-companies are trying to implement management systems from these pioneers. Different culture, other production principles and also other ambitions on process safety have given setbacks.

Process Safety Elements

Bilfinger Tebodin has developed a macro-management model on how to implement process safety in a way that fits an organization; Process Safety Excellence. This works, because the organization can choose on the focus areas within process safety *and* on the ambition it endeavours per focus area. This is called 'elementing' and it describes the first step in the achievement of process safety control.

By using the unique pillars of Process Safety, the main internal stakeholders of the organization (i.e. management team) are guided in formulating the relevant elements and setting the ambition.

The pillars are dividing process safety in comprehensive elements in which your organization will be ranked, using sessions, intelligent questioning and data analytics. These pillars are formulated in such a way that connections are made between fields-of-play in your organization, for example maintenance (e.g. mechanical integrity), occupational safety (e.g. working permit) and Management of Change.



Closing the gap

When knowing where the bar is (as decided during 'elementing'), Tebodin now has the promise to investigate where the gaps lie on process safety. The way varies and is depending on the chosen elements as well as available information.

When knowing the gaps, a plan can be formulated on closing these gaps (priority is managed by including resources, timing, cost and risk). Depending on the necessity and availability of recourses, the priority is adjusted to what the organization can manage. Periodic evaluations are held to check whether progress on closing the gaps is still on track.

Application

Process Safety Excellence can be used in a wide range of applications. Some examples:

- Auditing process safety performance for a specific location;
- Comparing process safety performance between different locations;
- Due Diligence.

The unique dimension is that PSX is developed for an industry-wide application, taking organization specific aspect into account.

Process Industries

Tebodin has a strong reputation in the process industry. In Northwest Europe and Middle East, we have an internationally recognized track-record with the most reputable companies. We offer independent consultancy and engineering services for both small-, and large-scale projects, in stand-alone solutions and industrial extensions.

In order to support our clients in achieving their strategic objectives, we focus on striking the right balance between flexibility and robust quality. The ability to do this cost effectively makes Tebodin a preferred partner in the various industry sectors.

Why Bilfinger Tebodin?

The Process Integrity & Safety team of Tebodin has a large pool of experienced experts, whom are trained and approved by multinational companies and institutes. Our approach to individual workshops is either customized or off-the-shelf (Bilfinger-Tebodin Way of Working), but will as minimum assure an excellent quality level.

Besides the expertise and experience to execute the before-mentioned process safety studies, Bilfinger Tebodin is capable to execute a variety on Process Hazard Analysis studies, like HAZOP, SWIFT. Also implementation of best practices on process safety by e.g. safety culture training both at management and at work floor level are within our core business.

For more information please contact:

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