



DEKRA Process Safety
Your Global Partner
for a **Safe, Secure** and
Sustainable World

DEKRA On the safe side

Brochure DEKRA Process Safety Services

Dependable expertise

At DEKRA Process Safety, it has been our mission and our calling for over 35 years to protect life, assets and the environment. We are leaders in the field, with specialist services for the identification, analysis, prevention and management of fires, explosions and accidental chemical releases. Our clients around the world rely on us for effective competence development and training, knowledgeable process safety advice and consulting, and rigorous testing.

DEKRA's view of process safety is holistic: our global pool of experts can provide training and advice on hazard identification, risk assessment and risk management for virtually any kind of operation. Through our testing services, we assess the flammability, combustibility, and thermal properties of materials to determine the conditions under which a fire or explosion will occur. In addition, we determine thermal stability properties of materials and identify potential chemical reaction hazards. This is a fundamental step to ensure safe chemical reactions and other processes such as grinding and drying. As chemical safety experts, we help clients to properly register, classify and market **hazardous substances** and the products that contain them. We also do help companies to transport, store and use such products in a safe way. We share our expertise in these areas through our competence development program, the DEKRA Process Safety Academy, designed to educate organizations and individuals in every aspect of process safety.

At DEKRA Process Safety we keep in close and constant contact with other business lines, such as Organizational Safety or Industrial Inspection. We can, therefore, provide a seamless "cradle to grave" safety service for industrial assets.



And we deliver—
with quality,
reliability,
objectivity.



Expanding capacities

Working closely with our industry partners, we are constantly combining expertise with fresh thinking, balancing solid experience with a keen eye for future trends. This is how we best serve our clients, who are continuously engaged in developing new products, equipment, and technologies, using new materials and testing out extreme conditions.

With state-of-the-art laboratories and testing facilities staffed by experts with the highest academic and industry credentials, we are able to modify and develop tests to meet client needs and to expand our capacities to help companies achieve more than compliance.

Re-envisioning process safety management

When process safety is integrated throughout an organization as part of a global approach encompassing skills, systems and culture, it becomes a real value for the company. This is what we aim to do with Organizational Process Safety (OPS), our distinctive approach to Process Safety Management (PSM).

OPS supports a corporate culture centered on safety and care.

While many companies dealing with process hazards have a process safety management model in place, they may still experience incidents, near misses or simply find their performance doesn't meet their targets.

AVOIDANCE

COMPLIANCE

VALUES

| Burden Safety is viewed as a hindrance where incidents/errors are inevitable. | Necessity Safety is externally driven and reactive, focused on avoiding cost. | Priority Safety priority is susceptible to change. Leaders espouse reliability but tolerate poor performance. | Goal Leadership is accountable for safety. Workers report abnormal conditions and concerns. | Values Worker well-being has intrinsic worth. Leadership embraces risk mitigation. Safety is a key aspect to performance. | World Class Process Safety is integral and sensitive to subtle changes, with self-motivated workers, learning-oriented leaders and effective governance. |
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| Organizational focus is on self-preservation with little or no Process Safety system in place. | There are pockets of good practice, but systems lack definition and consistent efficacy. | Process Safety systems exist and are documented, but effectiveness varies. | Auditing systems work and Process Safety procedures are followed. | Thorough systems exist with efforts that reinforce a strong organizational culture. | Mature systems exist within a healthy culture, sustained by an organization that has the expertise, skills, tools needed to adapt to future change |

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Our approach is different.

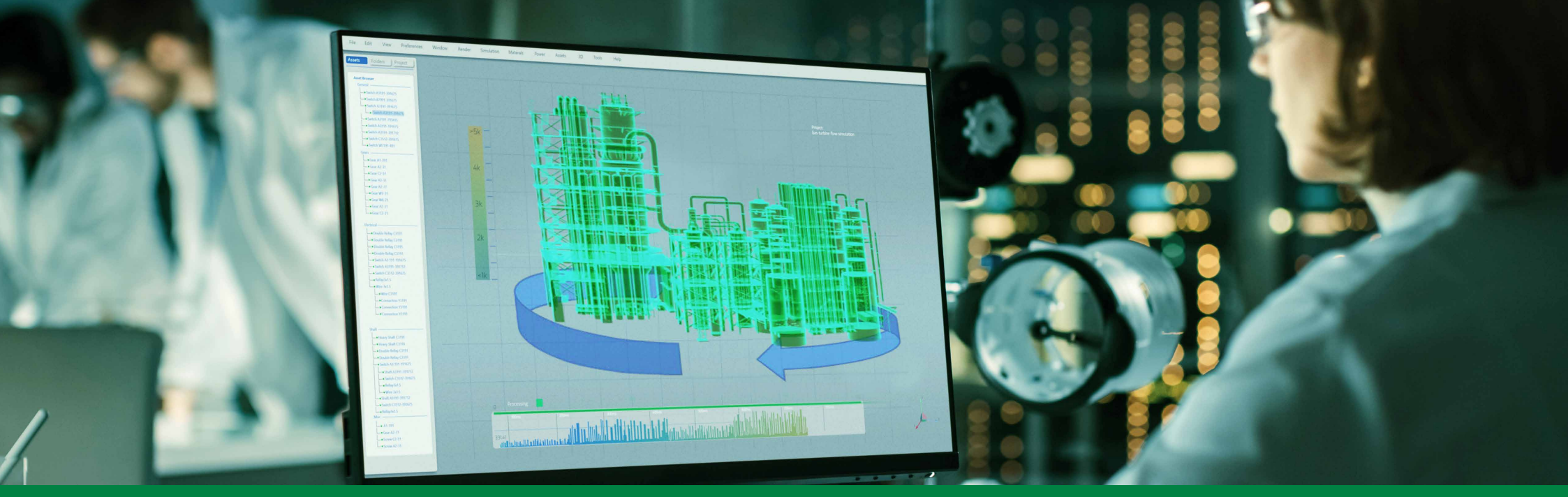
We look holistically at PSM systems, the proficiency of staff at all levels, and organizational culture. We can identify an organization’s process safety maturity level, for example, which ranges from ‘avoidance’ to ‘values,’ and this allows our consultants to match services to client needs. Wherever a company falls on the maturity scale, whether it is concerned primarily with compliance or striving for world-class status, our advisory and training services can provide tools and strategies to help.

Experience has shown us that this more comprehensive, organizational view of process safety helps ensure that PSM is successfully implemented throughout the lifecycle of operations, lowering process risks.

Thinking forward

Grounded in experience and expertise, we easily envision and embrace innovation. In fact, many of our services are now digitally empowered to optimize resources, improve accuracy and add value.

For example, the **DEKRA Digital Process Hazard Analysis (PHA)** takes the conventional PHA framework and integrates AI and computer simulation to shorten lengthy brainstorming sessions and yield more robust, precise and consistent results. The associated resource savings are estimated at 70%, freeing up human brainpower to assess potential safeguards and solve complex problems.



The Digital PHA, along with other consulting and advisory activities, is incorporated into the **DEKRA Safety Platform** (DSP), an ever-growing ecosystem of data and applications that is part of our digitalization strategy. The DSP provides a holistic view of an organization's safety performance.

Digital technology has also enabled us to extend our competence development programs beyond the reach of in-person training. The **DEKRA Virtual Process Safety Academy** includes all the advantages of its analog twin plus expands access and flexibility—it is a forward-thinking solution for sustainable competence development. With e-learning modules, workshops and exams available in 9 languages, the digital platform is easily accessible for convenient, engaging instruction in a cost-effective framework.

Our process safety philosophy

We view process safety in terms of gains, not costs, as a value and fundamental component of business excellence. It is as integral to success as quality assurance or occupational health and safety. That's why we work intentionally to share our skills and utilize available technologies, making sure safety, security and sustainability are accessible to every organization. Going forward, our vision is to transform data into valuable insights to further enhance our client's safety.

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Our employees felt truly cared for in their interactions with the consultants as a result of the personal touch that DEKRA brought to the task.

DEKRA's flexibility and ability to customize the digital tools was key. In the end, it felt seamless, like a true partnership.

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DEKRA Process Safety and Chemical Safety

The breadth and depth of expertise in process safety makes us globally recognised specialists and trusted advisors. We help our clients to understand and evaluate their risks, and work together to develop pragmatic solutions. Our value-adding and practical approach integrates specialist process safety management, engineering and testing. We seek to educate and grow client competence to provide sustainable performance improvement. Partnering with our clients we combine technical expertise with a passion for life preservation, harm reduction and asset protection. As a part of the world's leading expert organisation DEKRA, we are the global partner for a safe world.

[Would you like more information on Process Safety and Chemical Safety?](#)

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