

Process safety

Process safety is part of the overall safety of process plants

Process safety management (PSM) aims to prevent production or operational major accidents, equipment damage, production interruptions, and harmful emissions. Process safety accidents are less common, but their consequences are, at worst, extremely serious and costly damages to people, the environment, property, as well as the company brand.

The key to ensuring process safety

Technical understanding of the plant's processes and functions ensures safety in any industry handling hazardous materials and major accident risks.



How can AFRY help?

AFRY's safety experts have a deep technical background and safety assessments led by experienced experts detect the possible HSE risks in practices, procedures, or technical solutions. The efforts that are undertaken to improve the safety of facilities are often aimed at finding the right technical solution first. Human behaviour and organisational leadership are equally important and need to be addressed.

AFRY provides various safety services related to process safety. For example, HAZOP (Hazard and Operability Study) and SIL (Safety integrity level) analyses, HEA (Human error analysis), and consequence analyses are the core expertise of our experts. Our experts also carry out risk analyses related to explosive atmospheres (ATEX), including explosion and ignition risk analyses. Process safety management (PSM) development services offer a comprehensive expert view of the process safety of the plant.

Our Process Safety services:

- Process safety leadership
- Process safety risk assessment
- Process safety critical equipment
- Competence development
- Contractor management
- Operational procedures
- Management of Change
- Maintenance, mechanical integrity
- Emergency planning and response
- Compliance audits and reviews.

AFRY is a European leader in engineering, design, and advisory services, with a global reach. We will accelerate the transition towards a more sustainable society. We are 18,000 devoted experts in digitalisation and the fields of infrastructure, industry and energy, creating sustainable solutions for

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