



# Improving Process Safety/HSE Management Performance

Organizations must do a better job at executing effective risk management practices to decrease the number of injuries, incidents, environmental releases and other process safety accidents. This requires gaining an integrated understanding of your organization's engineering practices, safety culture and process safety/HSE program to target continuous improvement and achieve excellent process safety performance.

Companies have been implementing process safety programs for more than 25 years to manage the hazards and risks associated with processes using hazardous chemicals or energy. In spite of best efforts, many companies are challenged with continually improving process safety management (PSM) and health, safety and environmental (HSE) performance. Other companies may be implementing new PSM programs or systems for the first time, based on changes at their facilities or revised regulations. An enhanced understanding of how to improve process safety performance by effectively mitigating high-consequence risk and safety hazards benefits all PSM efforts regardless of current status.

## Risk Based Process Safety

Our safety, risk and compliance professionals recognize that all process hazards and risks must be identified, evaluated, ranked and controlled for safer, more reliable performance. Understanding that risk management solutions must be fit-for-purpose, we have more than 40 years of process safety expertise as well as insight into the latest PSM regulatory changes.

To promote PSM excellence and continuous improvement throughout industry, the Center for Chemical Process Safety (CCPS) created Risk Based Process Safety (RBPS) as the framework for the next generation of process safety management. ABS Group has written the RBPS and other guideline books to help process safety professionals implement and operate more effective process safety management programs through PSM related services and training solutions.

## Improving Performance and Efficiency

Achieving operational excellence and improving performance depends on designing and implementing effective PSM programs. To assist companies working in the oil, gas, chemical and other highly regulated process safety industries, ABS Group provides risk management services that combine industry expertise, risk management, practical engineering and technology based solutions.

We use a comprehensive and integrated risk management approach to help our clients manage diverse operational, security and catastrophic risks at each stage of their complex engineering projects in order to address the following and improve performance:

- Safety culture
- Risk management
- Process safety systems
- Organizational capability
- Operational discipline / conduct of operations
- Benchmarking and key performance indicators (KPIs)



[process-safety@abs-group.com](mailto:process-safety@abs-group.com)

[www.abs-group.com](http://www.abs-group.com)



**ABS Group**



## Risk Management Solutions

Hazard analysis is the first and in many ways the most important step in a risk assessment. If a hazard is not identified, its contribution to the risk cannot be estimated, putting personnel and facilities in high-risk situations. Organizations are required to consider preparedness, response and mitigation strategies related to process safety risks, which also help improve overall performance.

ABS Group's capabilities and core services for improving process safety include, but are not limited to:

- Facilitating end-to-end major accident hazard prevention via effective process safety programs
- Improving communication of risk issues to senior management, workforce, regulators and other stakeholders; and facilitating communication across language and cultural barriers
- Improving cost effectiveness of risk management activities
- Improving regulatory compliance
- Assisting with standardization across multiple assets, units and locations
- Providing software solutions for risk evaluation, ranking and profiling, risk management control and risk reporting to manage threats and hazard events
- Evaluating and enhancing process safety culture to improve process safety performance
- Developing organizational capability in process safety
- Evaluating PSM/HSE efficiency and performance
- Benchmarking against industry group and peer best practices
- Developing/implementing PSM/HSE leading indicators and KPIs
- Designing/implementing a PSM/HSE health check assessment approach to monitor performance between audits

## Our Value

Knowing that risk assessments are critical for continuous improvement in process safety, ABS Group provides field-proven technical solutions and PSM/HSE guidance to help you proactively manage safety, risk and compliance. Our global network of process safety engineers can help you identify and evaluate process hazards and design and implement appropriate process safety programs that drive continuous improvement in process safety/HSE performance throughout the operational life cycle.



[process-safety@abs-group.com](mailto:process-safety@abs-group.com)

[www.abs-group.com](http://www.abs-group.com)

