Process Safety Management (PSM) is associated with the prevention and control of incidents with the potential to release hazardous materials, or energy which could damage people, the environment or production. The last five years have seen process industries experiencing a growing awareness of the potential for major accidents. An increasing number of organisations are aware that process safety has to be managed in a risk-based, cost-effective way. However, more needs to be done.

- Safety critical plant and equipment must be of an appropriate design standard and must be adequately maintained to ensure reliability and integrity
- Systems and procedures must be fit for purpose, meet relevant good practice and be practicable
- People must be adequately competent and work in a positive cultural framework. This should encourage safe behaviour and the belief that any injury, harm or damage can be avoided
- Good process safety management must embrace the optimum way in which people, plant and systems inter-relate

What we offer
ABB deliver proven solutions that can be implemented practically in potentially hazardous operations, achieving sustainable risk reductions as a result. We support our clients in every aspect of process safety, including:

- Process Safety Management
  Assessing and improving PSM performance, including management systems, leadership, safety culture and technical aspects
- Risk management and assessment
  We identify key vulnerabilities and help to eliminate or minimise them
- Operational human factors
  We introduce practical approaches to minimise human error and deliver positive human interactions
- Functional safety systems
  We improve performance across the total life cycle for safety systems to IEC 61508 and 61511
Typically, we get involved in one or more stages of any improvement, namely:

- PSM systems audit
- Review of compliance with ‘leading from top’ recommendations
- Site Process Hazards Reviews (PHRs)
- Review or process safety culture and competency
- Workshop on process safety leadership
- Develop transformation plan
- Training in process safety awareness
- Training for process safety practitioners
- Development of PSM KPIs
- Development of corporate PSM standards
- Development of local PSM procedures
- Ongoing audit and review programmes

Working with customer teams, we can make the most use of local operational experience, and share our skills and experience. This method provides optimum solutions by combining best practice knowledge with a true understanding of operational needs.

**Benefits**
- Control of all a business’s process safety hazards
- Required process safety performance achieved
- Money spent effectively on reducing process safety risks
- Consistent commitment to process safety throughout the business
- Access to the required skills, resources and expertise

“We have found ABB’s approach extremely helpful in putting us on the road to broad-based PSM implementation. When one pieces together the various components of the ABB offering, it results in a full-fledged and very pragmatic management around PSM. The way ABB works also allows one to make whatever is developed bespoke to your company needs and I have found ABB incredibly eager and flexible when we have made changes to the approach. Highly experienced and articulate team members are always contactable and this helps greatly when there are issues.”

Michael de Klerk, Process Safety Director, Tata Steel Europe

**Why ABB?**

ABB have a long track record and extensive technical knowledge of process safety hazards. Our change management experience and process technical knowledge mean we have all the specialist skills required to find the safest, most cost-effective solutions. We work with customer teams to ensure we maximise the use of local operational experience and to share our skills and experience. This approach provides optimum solutions by combining best practice knowledge with a true understanding of operational needs.

Our engineers and consultants have operational backgrounds and make pragmatic technical judgements based on their experience. It’s an approach that ensures cost-effective, practical-to-implement solutions which work. Because of our involvement with industry bodies, we have a deep knowledge of global safety standards and legislation. We’re also able to call on a broad range of technical knowledge from across our consultants.