Safety Management
An integrated holistic approach
To succeed in business you must:

- Protect your licence to operate
- Meet ever more demanding regulatory requirements
- Manage the sustainability of your business
- Raise stakeholder and public confidence
- Minimise and, where practicably possible, eliminate the risk of incidents

ABB Engineering Services supplies a range of consulting services in manufacturing operations and engineering, including project implementation and management to customers in the chemical, petrochemical, oil and gas, pharmaceutical and consumer industries worldwide.

A growing number of organisations are becoming increasingly aware that safety issues need to be managed in a risk-based way linked to their business needs, but in a cost effective manner.

Good safety management must embrace the way in which people, plant and systems all inter-relate:

- Plant and equipment must be of an appropriate design standard / integrity and be adequately maintained
- Systems / procedures must be fit for purpose and practicable
- People must be adequately competent and work within a positive cultural framework that encourages safe behaviour and a belief that any injury, harm or damage can be avoided

Risk management

To ensure that the risks are adequately managed these inter-relationships need to be effectively developed and constantly improved.

Our experience

We have a unique blend of leading edge technical excellence combined with an operational heritage. We provide a source of independent, informed and practical guidance across all areas of risk management.

We develop solutions to problems and supply the skills and resources to ensure their effective implementation by drawing on our other capabilities some of which are outlined at the back of this brochure.
Safety assessments

We are able to carry out comprehensive assessments of your safety management arrangements to determine their:

- Effectiveness
- Fitness for purpose

Our extensive experience enables the findings to be benchmarked against world class standards and therefore assess the safety culture of your organisation. We can then develop and implement an achievable and sustainable programme of improvement.

Specialist safety support for each of these services is also provided where the client has a need.

Functional safety systems management

We also provide leading-edge consultancy in the compliance of the full life cycle safety requirements of the IEC 61508 and IEC 61511 standards. We led the development of and are Registered Assessors for the IEC 61508 Conformity Assessment of Safety Related Systems (CASS) Scheme. We also offer a set of validated safety management software tools for SIL Determination and the maintenance of safety functions.

Customer benefits

By using our proven approach, we can ensure that you:

- are in adequate control of all the safety aspects of your business
- are achieving the safety performance improvements needed
- are spending money on safety management and improvement in the most effective way
- have a consistent commitment to safety throughout the business
- have access to the skills, resources and expertise required
The services we offer

<table>
<thead>
<tr>
<th>Safety services provided:</th>
<th>Our capabilities include:</th>
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<tr>
<td>- Effective safety management processes</td>
<td>- Asset assurance</td>
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<td>- HAZOP &amp; life cycle hazard studies for new projects &amp; existing plants</td>
<td>- Asset care</td>
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<td>- Hazard &amp; Quantified Risk Assessment (QRA)</td>
<td>- Asset performance improvement</td>
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<td>- Functional safety systems management (IEC61508)</td>
<td>- Business process optimisation</td>
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<td>- Human factor reviews &amp; HSE culture change</td>
<td>- Capital project management and execution</td>
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<td>- Workplace safety</td>
<td>- Energy and utilities</td>
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<td>- Fire &amp; explosion safety management</td>
<td>- Engineering design services</td>
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<td>- Control of Major Accident Hazards (Seveso II / COMAH) compliance</td>
<td>- Environment services and IPPC</td>
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<td>- Process Safety Management (PSM)</td>
<td>- Manufacturing process optimisation</td>
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<td>- Consequence assessment &amp; gas dispersion</td>
<td>- Operational plant support</td>
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<td>- Electrostatic hazards</td>
<td>- Organisation and competency development</td>
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<td>- Dust explosion hazards</td>
<td>- Safety management</td>
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<td>- Software solutions</td>
<td>- Software solutions</td>
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ABB Engineering Services is part of ABB’s Automation Technologies division serving customers in the chemicals, consumer, life sciences, manufacturing, metals, paper, petroleum and utility industries.

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East Kilbride
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