

## SMS PROGRESSION

**Gap Analysis:** Assessment of current safety systems and programs against SMS best practice, regulatory requirements and internationally recognized models. A gap analysis involves site visits and interviews with personnel as well as access to documentation and field observations.

**Culture Analysis:** Understanding behavior and motivation is the key to assessing and improving the safety culture within an organization. A safety culture analysis establishes a baseline for site-specific SMS training, development and implementation.

**Development and Implementation:** Facilitation, guidance and follow-up in the development and realization of a practical organization-specific SMS manual, implementation plan and other tools and documentation.

**Training & Workshops:** We provide both theoretical and practical training on management systems for both small and large organizations. Instructional methods are selected to suit the learning objectives. Training can take the form of interactive e-learning, classroom training, table-top exercises, and discussion groups as well as on the job training and full scale exercise assessments.



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# Safety Management Systems



International Safety Research Inc.  
*Engineering risk management solutions*

# SAFETY MANAGEMENT SYSTEMS

The corner stones of SMS are continuous improvement and a pro-active approach to safety risk management. Woven into the fabric of an organization, safety becomes part of the organizational culture and the way people do their jobs. This systematic approach to safety management is recognized as both best practice in many safety critical industries and the most cost-effective way to achieve sustainable safety improvement. International agencies of high risk industries, such as the International Civil Aviation Organization and the International Atomic Energy Agency, have already promulgated standards, requirements and other materials concerning SMS.

**A Safety Management System (SMS) is an integrated set of beliefs, work practices and procedures for monitoring and improving all aspects of the safety of an organization.**

For organizations looking to implement or improve an integrated safety management system, we offer a range of services from SMS analysis and development, through implementation and training. All client relationships start with an initial meeting for needs analysis and to identify of the scope of work.

## SAFETY CULTURE



## INTERNATIONAL SAFETY RESEARCH

ISR is a leader in safety management and has been recognized as such by several states and regulatory entities internationally. Our team is comprised of experts from the nuclear, chemical, military and aviation industries from both the private and public sectors. ISR has performed a wide range of SMS services for a number of high-risk organizations. This combination of expertise and experience allows us to understand many organizational issues and develop specific solutions based on our management system pillars: leadership, culture, measures, and continuous improvement.

## DETAILED SERVICES

### For regulatory bodies

- ◆ Development of a SMS regulatory structure
- ◆ Development of SMS regulations
- ◆ Development of SMS assessment protocols
- ◆ Development of SMS guidance material for industry
- ◆ Training of inspectors/compliance assessors
- ◆ Determination of a safety culture baseline

### For operators/users

- ◆ Gap analysis
- ◆ Development of implementation plans
- ◆ Development of SMS processes
- ◆ Development of SMS manuals
- ◆ Development of SMS supporting tools
- ◆ Development and delivery of training and workshops for all levels of an organization
- ◆ Organizational SMS assessments

## SMS EXPERIENCE HIGHLIGHTS

### Aviation



- ◆ Development of the industry Guidebook for all USA Part 139 airports on SMS
- ◆ Performance of a safety culture baseline for Canadian civil aviation inspectors
- ◆ Development of regulatory structure and SMS regulations for the Kuwait Civil Aviation Authority
- ◆ Development and delivery of SMS training for clients such as Transport Canada's Inspectors, International Association of Airport Executives and Geneva's International Airport Authority
- ◆ Execution of Gap Analysis and development of SMS implementation plans for several airports and air operators both domestic and overseas.

### Defence/Military



- ◆ Development of an Operational Environment, Health and Safety Management System manual for task force commanders for the Operational Commands of the Canadian Forces
- ◆ Delivery of a Safety Management Plan for the special radiological practices performed by Defence Research and Development Canada
- ◆ Review of Canadian Air Force safety programs including recommendations for improvement and implementation of SMS.

### Nuclear



- ◆ Assisted in the improvement of safety and emergency response services at nuclear power stations in Canada.
- ◆ Assessed the safety culture and developed a Nuclear and Ionizing Radiation Safety Management System for Canadian military nuclear regulator.
- ◆ Developed Directive and SMS for the management of safety for activities related to nuclear materials performed by the research and development branch of the Canadian military