

Inherently Safer Technology (IST)

Services and Training



AcuTech's IST Services:

- Strategic Planning
- IST Reviews
- Integration into existing security and safety assessment methods
- Technology options assessments

AcuTech Training:

- Overview of IST
- Inherently Safer Technologies Assessment Methodologies and Procedures
- Custom-designed courses for your state (compliance-driven), your company (culture-driven), or your specific needs

Inherently Safer Technology (IST) concepts are recognized as having the potential to enhance overall chemical safety and security risk management programs. Such concepts have been well received by industry and there has been significant advancement in the concept and practice over the last 10 years. The State of New Jersey and Contra Costa County, California, have implemented regulatory requirements to mandate consideration of such design concepts and the US Congress has been discussing the issue as an element in chemical security regulations.

AcuTech is the recognized market leader in providing IST services to industry and government. We have been deeply involved in IST for safety and security assessments and helping companies develop, improve and implement IST management systems to manage risk. Our consultants are experienced at leading Process Hazard Analyses (PHAs) and Security Vulnerability Assessments (SVAs), developing Process Safety Management (PSM) and Security Management Systems (SMS) programs, performing Inherently Safer Technology (IST) reviews, and in developing practical, effective and resource-conscious recommendations.

AcuTech is accomplished in analyzing hazards, suggesting inherently safer alternatives, designing processes, completing IST analyses, and documenting the necessary changes and justifications related to IST requirements.

AcuTech served as the lead author for the second edition of the seminal Center for Chemical Process Safety book, "**Inherently Safer Chemical Processes, A Life Cycle Approach.**" This book is cited by regulators, researchers and safety advocates as a key reference and serves as the updated resource on detailed IST concepts and practices.



AcuTech's Inherently Safer Technology (IST) Services

AcuTech has extensive experience supporting the risk management needs of the process industries. We understand the intricacies of inherently safer design and know how to balance our clients' needs for safer approaches to designing, developing and manufacturing their products. We have the engineering, risk management and safety expertise to recommend IST strategies to reduce or eliminate the hazards associated with manufacturing.

We conduct inherently safer technology reviews and provide advice to clients on how to minimize, substitute, moderate or simplify their processes and practices to make them inherently safer. We advise our clients that IST will not eliminate all risks and we counsel them to identify the overall opportunities to reduce hazards and increase overall safety. Our experienced consulting team advises that IST concepts should be analyzed at regular intervals during the process life cycle, at project milestones and in daily decision making.

In comparison to other risk management strategies, IST can sometimes provide significant advantages through simpler and less costly alternatives. The AcuTech team will help identify alternative technologies, practices, policies and procedures and will assist in analyzing costs and benefits and potential pitfalls in shifting risk.

AcuTech's services help clients to:

- Protect employee and public health and safety
- Reduce the chance and impact of process accidents and intentional harm
- Communicate risk to the public
- Comply with government regulations
- Avoid adverse consequences

Select Inherently Safer Technology Experience

- AcuTech is an industry leader in providing IST services.
- We assist clients in recognizing opportunities to reduce risk, to comply with IST regulations and to understand and incorporate IST concepts into their training and practices.
- We regularly perform projects for companies regulated by the Contra Costa County Industrial Safety Ordinance which requires the consideration of Inherently Safer Systems in the development and analysis of mitigation items resulting from a process hazard analysis and in the design and review of new processes and facilities.
- AcuTech consults with firms in New Jersey which requires sites to conduct IST Reviews to meet security requirements of the TCPA regulation.
- The New Jersey Department of Environmental Protection staff attended a special session AcuTech held to train regulated facilities on IST concepts and methodologies for implementation.
- AcuTech's President, David Moore, testified before the US Senate Environment and Public Works Committee on IST for chemical security.

About AcuTech

The AcuTech Consulting Group is a global consulting company offering a full range of management and technical consulting, training services, and software products to assist companies with Chemical Process Security, Risk Management, and Process Safety and Security Management. AcuTech offers a unique background in chemical process safety and security, design, operations, inherent safety, fire protection, and security that provide our clients with practical, cost-effective solutions for the new challenge of chemical security management.

Although our scope of services include regulatory compliance with federal, state and local requirements, AcuTech's abilities extend beyond these standards to enable us to deliver advanced services that meet the higher level of safety and security demanded by changing world circumstances. AcuTech blends strong project management skills with a personalized, responsive business style allowing us to work in harmony with our clients. We emphasize on-time, cost-effective performance, provided by professionals experienced in achieving these goals.

Contact us today at 703.676.3180 or help@acutech-consulting.com to learn how AcuTech's services can help you.