



Process Security Services



AcuTech Consulting Group is internationally recognized for petroleum and chemical process security and safety services. **Our mission** is to assist organizations to continually improve their safety, security, health environmental and operational performance. We have developed national security guidelines for key government agencies and industry organizations, as well as taught seminars and conducted security vulnerability analyses (SVAs) for these organizations. AcuTech is **the leader** in advising Government and industry in the critical challenge of protecting critical chemical and petroleum infrastructure.

Since 1994, AcuTech has been assisting clients with their risk management challenges.

Integrated Security , Process Safety & Emergency Management

AcuTech delivers integrated security facility resources. The process safety features of a facility can compliment and enhance security elements when they are evaluated and implemented as an integrated system, rather than standalone facility elements. Facilities must integrate these elements into a management process for these programs to be complete and effective.

Fundamental steps in the process of managing security risk are

1. Conduct a SVA to understand threats and vulnerabilities
2. Evaluate existing and proposed countermeasures
3. Implement and test specific countermeasures to address the threats and vulnerabilities

Security management should be risk-based, i.e., appropriate security risk management decisions must be made commensurate with the risks specific to the facility. The specific situations must be evaluated individually using best analytical methods and best practices.



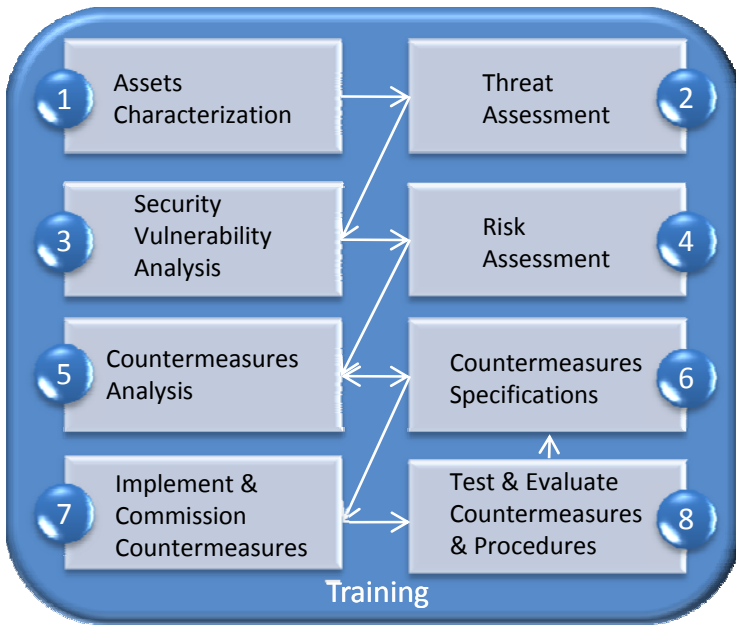
This flexible approach recognizes that there is no universal approach to security and that resources are best applied to mitigate high consequence events. Facilities cannot prevent or protect against all known or suspected threats, but there are reasonable measures and approaches that can be taken.



Process Security Services



We assist clients to recognize the threats facing facilities and their operations, analyze the hazards, identify the vulnerabilities, assess the risks, develop mitigation plans, integrate systems, validate performance, and train operators and responders.



Our security management services include

- Compliance strategies and assistance
- Security Vulnerability Assessments (SVAs)
- Security Plan Development
- Conceptual plans and design to mitigate risk / threat
- Detail design and implementation oversight
- Security Management Systems (SMS)
- Countermeasures performance testing and commissioning
- Policy and procedure development
- Consequence modeling for release or explosion analysis
- Corporate baseline security measures guidance
- Independent reviews and audits
- Emergency response and crisis management planning
- Business continuity planning
- Training, drills & exercises

Security Training

We teach clients strategies that facilities can use in managing security: skills to perform SVAs, practical and effective countermeasures, up-to-date information on emerging security regulations, government development, and industry activities. Courses are available through the AcuTech Training Institute (ATI) or can be provided at your site.

Hundreds of attendees have participated in our security training programs offered through AcuTech Training Institute and affiliated courses offered by the American Petroleum Institute (API), National Petrochemical and Refiners Association (NPRA), and American Institute of Chemical Engineers (AIChE). Attendees have included a wide range of industry staff (chemical, petrochemical, oil, gas, pipeline), academic and government staff (local, state, federal, military).

Software Tools for Security – SVA-Pro®



Dyadem's **SVA-Pro**®, a software tool designed to simplify documenting SVAs, brings consistency to studies performed at multiple sites, and provides an easy method of updating assessments thereby saving time and money. The software provides expert guidance to help companies identify critical assets and potential. Built in libraries streamline the documentation process. Integrated templates developed by AcuTech are available for even greater efficiency.



Key Experience & Qualifications

- Provided subject matter expertise to the US Department of Homeland Security (DHS) in the development of the US Chemical Facility Anti-Terrorism Standards (CFATS) regulation.
- Market leader in conducting domestic and international SVAs for major petroleum and chemical industry clients organizations (DHS, CCPS, API/NPRA, ACC, ASME, NASFM), SVAs have included security for marine operations, offshore platforms, fixed petroleum and chemical facilities, and pipelines.
- Petroleum, chemical, and LNG industry sector coordinator for the Risk Analysis and Management for Critical Asset Protection (RAMCAP) project for the US Department of Homeland Security (DHS). This US effort developed uniform vulnerability assessment guidance. Trained DHS staff in SVA methodology.
- Conducted security surveys and vulnerability assessments for various US government agencies including; FAA, DOE, US Army Corps of Engineers, Department of the Treasury, FDA, DoD, US Capital Police, and Department of Transportation.
- Developed API/NPRA SVA methodology and API Security Guidelines for the Petroleum Industry and the 2nd edition of the API Security Guidelines for the Petroleum Industry to include security for pipelines and other transportation modes.

ACUTECH ADVANTAGES

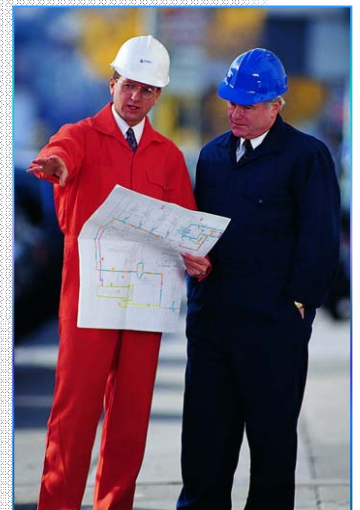
- ❖ MARKET LEADER IN CHEMICAL & PETROLEUM SECURITY SERVICES
- ❖ DEVELOPED KEY SECURITY GUIDANCE FOR GOVERNMENTS & INDUSTRY
- ❖ HUNDREDS OF SUCCESSFUL PROJECTS WORLDWIDE
- ❖ RECOGNIZED EXPERTISE IN SECURITY & SAFETY INTEGRATION
- ❖ RECOGNIZED CHEMICAL SECURITY EXPERTS

- Selected to develop and conduct the 1st series of training seminars on the SVA methodology for AIChE.
- Selected to provide API SVA training courses since 2003. Have trained over a hundred attendees in security issues and vulnerability assessment techniques.
- Prime contractor for development of the CCPS[®] *Guidelines for Analyzing and Managing the Security Vulnerabilities of Fixed Chemical Sites* (08/2002), also developed the American Chemistry Council SVA methodology for Tier 4 sites.



Industries Served

Chemical
Petroleum
Liquefied Natural Gas
Petrochemical
Academia
Government
Transportation
Critical Infrastructure
Agriculture & Food
Energy
Maritime
Defense
Nuclear
Healthcare



Process Security Services

- Security Management Systems
- Security Policies & Procedures
- Security Vulnerability Assessment
- Security Risk Assessment
- Security Plans
- Critical Infrastructure Protection
- Countermeasures Selection, Design, & Implementation
- Training
- Security Reviews & Audits



Process Safety Management Services

- Process Safety Management (PSM)
- Process Hazards Analysis (PHA)
- Layers of Protection Analysis (LOPA)
- SIL / Safety Instrumented Systems
- Management System Auditing
- Inherently Safer System Analysis
- Risk Communication / Crisis Management
- Quantitative Risk Analysis (QRA)
- Consequence Modeling

Emergency Management Services

- Emergency Response Planning
- Drills & Exercises
- Integrated Emergency Management Plans
- State & Local Homeland Security Planning
- Crisis Management Plans
- Business Continuity Planning (BCP)
- Continuity of Operations Planning (COOP)
- Continuity of Government (COG)
- NIMS / ICS Implementation



For more information about AcuTech Consulting Group's services or to arrange a meeting with a consultant, please contact help@acutech-consulting.com or call +1 (703) 245-3015.



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