

## Chemical Process Security Courses For 2002



# Security Vulnerability Analysis

**October 14-15**

**November 4-5**

**November 12-13**

**San Francisco**

**Philadelphia**

**Houston**



## A New Imperative for Chemical Process Security

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Since chemical facilities may pose an attractive target to terrorism, facilities that manufacture, store, use, or handle hazardous chemicals have a new and urgent risk to address. We must consider the potential for anyone with the intent, capabilities, and motivation to cause intentional releases or theft of chemical assets with the purpose of causing mass casualties, property damage, and economic or environmental impacts. Following the identification of the threats and vulnerabilities, we must assess whether current security measures effectively address these new and unforeseen threats, and make enhancements as required to provide for the safety of the public, workers, and the environment.

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### Course 1500-01: Security Vulnerability Analysis

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This course explains the process of conducting a security vulnerability analysis for analyzing risks of these issues. The process involves the identification of the potential threats facing the site, the analysis of intentional acts that may be carried out, and the assessment of current countermeasures. It is a practical course intended to develop knowledge of security issues and methods to analyze risks, and to help companies develop a process for effective security countermeasures with consideration of both costs and benefits.

#### Course Benefits

- Learn about the emerging security regulations and industry activities that relate to security for process facilities including the proposed new Chemical Security Act (S.1602).
  - Learn how to conduct a Security Vulnerability Analysis per industry guidelines such as the CCPS® Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites”.
  - Learn how to integrate a process security management program into an existing process safety management program, and to include new critical issues as they relate to the prevention of intentional releases and theft of chemical releases at process facilities.
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#### CCPS® Security Vulnerability Analysis Guidelines Book

*The Center for Chemical Process Safety (CCPS®) has released the new guidelines book “Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites”. This book describes a systematic process for identifying, analyzing, and managing a company's security vulnerabilities called a Security Vulnerability Analysis (SVA).*

*Criteria to benchmark the CCPS® security vulnerability analysis (SVA) process are set forth, and then tools for identifying and reducing vulnerabilities are described. Finally, guidance for building security activities into Environment, Health, and Safety business processes is provided. A workbook is included in Appendix C to illustrate the application of the CCPS SVA and the various tools and methods presented in this book. The AcuTech Consulting Group was the lead author of the guidelines book. To obtain a free electronic copy of the guidelines book, register at <http://www.aiche.org/ccpssecurity> or contact Mr. Scott Berger at [scotb@aiche.org](mailto:scotb@aiche.org).*

*.AcuTech provides training and consulting on chemical process security and SVA. For further information, please contact David Moore, the AcuTech Project Manager, at [dmoore@acutech-consulting.com](mailto:dmoore@acutech-consulting.com).*

## SECURITY VULNERABILITY ANALYSIS (2 DAYS)

### COURSE DESCRIPTION

This class focuses on use of the CCPS® Security Vulnerability Analysis (SVA) approach although other available methods will be described. The objective is to train participants to lead, document and manage SVAs of chemical facilities. It provides participants with technical and facilitating skills required to successfully plan and execute a study. Participants will also gain hands-on experience through interactive workshops using the method. Software for conducting SVAs will be used). The primary objective of the course is to present a SVA approach whereby a facility can evaluate the potential for a range of internally or externally committed intentional acts.

### WHO SHOULD ATTEND

The SVA method described is intended to be widely applicable to sites that handle and manufacture chemicals. The target audience includes individuals responsible for conducting security vulnerability analyses including team leaders; team members; security professionals, environmental, health, and safety professionals; supervisors; engineers and others expected to lead or participate in SVA studies. No prior SVA experience is necessary. This offering is ideal for companies interested in developing in-house SVA leadership skills.

The method is highly relevant for companies in:

- Chemical manufacturing, storage, and handling
- Oil & gas exploration/Production
- Oil refining
- Petrochemicals
- Chemicals

### SECURITY VULNERABILITY ANALYSIS (2 DAYS) - Course Outline

- 1 Introduction & Objectives
- 2 Overview of Security Vulnerability Analysis (SVA)
  - 2.1 New paradigm of chemical process security
  - 2.2 Security strategies
  - 2.3 Definitions of terms for SVA
  - 2.4 Commonly Used Techniques and How to Choose Them
  - 2.5 SVA Methods Strengths and Limitations
- 3 Steps in the Analysis
  - 3.1 Steps for Planning, Preparing & Conducting a Study
  - 3.2 Project Planning
  - 3.3 Facility Characterization
  - 3.4 Threat Assessment
  - 3.5 Vulnerability Analysis
  - 3.6 Identify Countermeasures
- 4 Managing SVA Results
  - 4.1 Preparing a report
  - 4.2 SVA Documentation Examples
  - 4.3 Follow-up on Action Item
- 5 SVA Workshop



### COURSE INCLUDES:

- ? Lectures, manuals, instruction in use of software tools, certificate of completion, lunches, and coffee breaks.



## ACUTECH TRAINING INSTITUTE REGISTRATION FORM

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*Please make copies of this form for multiple attendees*

<b>Check</b>	<b>Cost</b>	<b>Please sign me up for the following course(s):</b>
<input type="checkbox"/>	\$ 995	Security Vulnerability Analysis, October 14-15, San Francisco, CA
<input type="checkbox"/>	\$ 995	Security Vulnerability Analysis, November 4-5, Philadelphia, PA
<input type="checkbox"/>	\$ 995	Security Vulnerability Analysis, November 12-13, Houston, TX



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Course venues to be announced. Please contact AcuTech at 415-923-9226 to register or to answer any questions you may have.



## TRAIN WITH LEADING SAFETY EXPERTS!

	<p><b>MR. DAVID MOORE</b>, President and CEO of AcuTech Consulting, has over 23 years of specialized experience in all elements of process risk management. Mr. Moore was the lead author of the CCPS® “Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites”. He is a frequent lecturer on security for the chemical industry, and is actively involved in chemical process safety and security. He has provided risk consulting services and training to industrial facilities worldwide, including oil refineries, chemical plants, pipelines, and manufacturing plants. Mr. Moore has taught process safety courses for over 15 years to many of the world’s largest corporations.</p>
	<p><b>MR. MICHAEL HAZZAN:</b> Michael Hazzan has over 25 total years experience in risk and safety analysis, engineering, and plant operations. He was a coauthor of the CCPS® Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites”. He has served as a Project Manager/Lead Engineer for a number of safety and risk studies, and audits. This work has comprised process safety related compliance audits, HAZOP studies, dispersion/consequence calculations, mechanical integrity management systems, probabilistic risk analyses, and fault tree analysis. Mr. Hazzan has also authored and extensively taught PSM training courses to companies around the world.</p>

## SPECIALS !

- Additional attendee from the same company are entitled to a 10% discount or
- Register for any two courses and receive a 10% discount or
- If you register more than four attendees for the same class, the fifth attendee from the same company is FREE !!

## CUSTOMIZED COURSES

AcuTech also provides customized training for your facility. Any course offering can be presented onsite. Specific workshop examples related to your facility can also be incorporated. We have conducted customized training for numerous clients and can provide you references. Benefits to onsite courses include:

- Custom Focus for Enhanced Value. Courses are designed to address unique requirements of your personnel, utilizing their time efficiently and your money effectively
- Limit travel expenses. By bringing our experts to you, you realize significant savings in travel expenses and time lost.
- Minimal impact to work schedules. Your personnel are trained at your facility, minimizing their time offsite and the possible need to bring in additional shift coverage

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