



2024

TRAINING COURSE CATALOG



**PROCESS
SAFETY**



SECURITY



**CRISIS &
EMERGENCY
MANAGEMENT**

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ONSITE & CUSTOMIZED TRAINING

AcuTech provides on-site training on process safety, risk management, security and crisis & emergency management topics. The courses listed below can be delivered as an onsite program customized to your organization and facility.

Contact us to discuss your training needs.

ABOUT ACUTECH TRAINING INSTITUTE

AcuTech Training Institute (ATI) has provided superior quality, practical training courses, seminars, and workshops on process safety, risk management, security, and crisis & emergency management since 1994. Dedicated to providing a high-value solution for all training needs, we provide a strong working knowledge and a clear presentation of safety management principles and regulatory requirements. Partner with AcuTech to develop a strong process safety and security management capacity in your organization.

KEY BENEFITS

- Receive training from experts who have taught thousands of risk management professionals
- Gain hands-on experience through interactive workshops
- Learn from real-world case studies as shared by our course instructors - their backgrounds in industry and government provide a practical and complete perspective
- Gain insight into expectations of regulators from AcuTech's depth of experience and insights to the industry
- Obtain a Certificate of Attendance with PDHs

Our expert instructors are internationally recognized leaders in process safety, risk management, security, and crisis & emergency management. They have extensive theoretical knowledge and practical experience and are skilled at imparting the knowledge needed to manage process risks and the principles involved.

All AcuTech instructors believe in operational excellence and continuous improvement.

ABOUT ACUTECH

Since 1994, AcuTech has been a global leader in providing best-in-class consulting, training, and software solutions to manage process risk.

With deep expertise in both the management and technical aspects of risk management, AcuTech is uniquely positioned to support clients ranging from the world's largest companies to specialized private companies to trade organizations and government agencies in improving safety, security, environmental, and operational performance.

This extensive experience across industries and in-depth knowledge of the tools and methods available for managing risk, allows our consultants to be responsive and flexible to meet client needs. In addition, they possess strong project management skills, broad technical expertise, and emphasize high-quality, on-time project work to support safer, more efficient, and, ultimately, more profitable operations.



ACUTECH IS GLOBAL

With experience running projects in 150+ countries and consultants located around the world, AcuTech can offer training globally.

A PARTNER

Trusted by the world's largest companies to deliver critical risk services and training.



Course List



Below is a listing of the courses offered by ATI, including the course number, name, duration, cost per person (at AcuTech facilities), and PDH credits. The first three digits of the course number denote the level of the course (100/200).

PROCESS SAFETY & RISK MANAGEMENT

MANAGEMENT CLASSES

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-001	OSHA Process Safety Management Overview	1	900	8
100-002	Achieving Process Safety Excellence	2	1,750	16
100-003	EPA Risk Management Program (RMP) Overview	1	900	8
100-004	Overview of Process Hazard Analysis	1	900	8
100-005	Overview of Auditing for PSM/RMP Compliance	1	900	8
100-006	Understanding Quantitative Risk Assessments (QRAs)	1	900	8
100-007	Risk-Based Decision Making and Cost-Benefit Analysis	1	900	8

PSM TOPICS

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-011	Best Practices in Process Safety & Risk Management	2	1,750	16
200-012	Building a Strong Process Safety Culture	2	1,750	16
200-021	Auditing for Process Safety & Risk Management	2	1,750	16
100-031	Process Hazard Analysis (PHA) & Layer of Protection Analysis (LOPA) for Team Members	1	900	8
200-032	Process Hazard Analysis (PHA) & Layer of Protection Analysis (LOPA) for Team Leaders	4	3,250	32
200-033	Process Hazard Analysis (PHA) Revalidation & Advanced Topics in PHA	2	1,750	16
200-034	Essentials of Layer of Protection Analysis (LOPA)	2	1,750	16
200-041	Developing & Managing Management of Change / PSSR Programs	2	1,750	16
200-051	Developing & Managing Mechanical Integrity Programs	2	1,750	16
200-061	Incident Investigation & Root Cause Analysis	2	1,750	16
200-071	Contractor Safety	2	1,750	16
200-081	Inherently Safer Chemical Processes	2	1,750	16

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PROCESS SAFETY & RISK MANAGEMENT

RISK MANAGEMENT PROGRAM (RMP) & STATE PROGRAMS

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
200-091	Implementing EPA's Risk Management Program (RMP)	2	1,750	16
200-092	Implementing California's CalARP & CalOSHA PSM Program	2	1,750	16
200-093	Implementing New Jersey's Toxic Catastrophe Prevention Act (TCPA)	2	1,750	16

SAFETY & ENVIRONMENTAL MANAGEMENT SYSTEMS (SEMS)

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-101	Overview of SEMS Regulation	1	900	8
200-102	Implementing a SEMS Program at an Offshore Facility	2	1,750	16

ACUTECH SOFTWARE TRAINING (ACUITY®)

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-111	Acuity Overview	1	900	8
200-112	Acuity Power User Training	1	900	8

HUMAN FACTORS

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
200-121	Human Factors & Procedure Analysis	2	1,750	16

LOSS PREVENTION ENGINEERING

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-131	Fundamentals of Loss Prevention in the Process Industries	2	1,750	16
100-132	Fire Protection Engineering in the Chemical Process Industries	2	1,750	16

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PROCESS SAFETY & RISK MANAGEMENT

QUANTITATIVE RISK ASSESSMENT (QRA)

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
200-141	Quantitative Risk Assessment (QRA)	3	2,500	24
200-142	Combustible Dust Mitigation & Management	1	900	8
200-143	Facility Siting	2	1,750	16

ENVIRONMENTAL HEALTH & SAFETY (EHS)

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-151	Occupational Safety & Health Basics	2	1,750	16
100-152	Industrial Hygiene	2	1,750	16
100-153	OSHA Voluntary Protection Program (VPP) Compliance	2	1,750	16

ONSITE & CUSTOMIZED TRAINING

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Get in touch at contact@acutech-consulting.com to tailor a program for your organization and facility.

Course List



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SECURITY

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
200-171	Security Risk Assessment (SRA) Standard 780	2	1,750	16
200-172	Auditing Facility Security for Maritime Compliance (MTSA, CFATS, ISPS, HCIS)	2	1,750	16
200-173	Port Facility Security Office (PFSO): USCG Certified Training Course	3	2,500	24
100-174	Insider Threat Management	2	1,750	16
100-175	Introduction to Security Countermeasures	1	900	8
100-176	Chemical Reactivity Hazards for Security Personnel	1	900	8
100-177	Supply Chain Security	2	1,750	16

EMERGENCY MANAGEMENT

Course Number	Course Title	Duration (days)	Cost (\$)	PDHs
100-161	Emergency Planning & Response for the Process Industries	2	1,750	16
100-162	Business Continuity & Crisis Management	2	1,750	16

COURSE PRICING

All costs listed above are for open-enrollment courses taking place at AcuTech facilities.

Contact us at contact@acutech-consulting.com
to discuss training a team.



ACHIEVING PROCESS SAFETY EXCELLENCE

Course Number: **100-002** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Achieving Operational Excellence is a journey. This two-day course will cover the key aspects of achieving higher performance in your entire organization by way of a comprehensive Operational Excellence program founded in process safety management. Starting with the need for management commitment, we highlight the justification for making this investment, followed by how to plan, organize, execute, and sustain a program. This class is oriented towards senior business managers and executive level personnel, as well as those responsible for managing process safety.

We present AcuTech's Process Safety Operational Model, based on years of assisting companies to drive improved PSM performance. The class will include exercises on how to develop a risk-focused organization with a culture of zero process safety incidents and high levels of performance. We give benchmarking data and explain how to develop KPIs for tailoring activities and measuring success.

COURSE BENEFITS

- Insight to Operational Excellence through process safety
- Benchmarking best practices for organizing for process safety
- KPIs and tools for managing process safety
- Advice on how to promote an underlying process safety culture
- How to drive a corporate focus on becoming a leader in process safety

RECOMMENDED PREREQUISITES

ATI 100-011: Best Practices in Process Safety Management





OSHA PROCESS SAFETY MANAGEMENT OVERVIEW

Course Number: **100-001** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

The one-day course provides an overview of the elements of the OSHA Process Safety Management (PSM) standard. Participants receive a basic understanding of the process safety elements regulated by U.S. OSHA and EPA, including background and requirements for each element. The one-day format is ideal as both initial and refresher training for larger groups of employees.

EPA RISK MANAGEMENT PROGRAM (RMP) OVERVIEW

Course Number: **100-003** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

This one-day course provides an overview of the elements of the EPA Risk Management Program (RMP) Rule. Participants receive a basic understanding of the RMP elements, including background and requirements for each element. The course will also cover the revised RMP Rule that was published in the Federal Register in December 2016. The one-day format is ideal as both initial and refresher training for larger groups of employees.

OVERVIEW OF PROCESS HAZARD ANALYSIS

Course Number: **100-004** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

This one-day course will introduce participants to the practice of Process Hazard Analysis. The course will describe the underlying regulatory requirements, as well as typical industry practices in PHA.



OVERVIEW OF AUDITING FOR PSM/RMP COMPLIANCE

Course Number: **100-005** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

This one-day course will describe the practice of auditing, with a focus on the auditing of PSM programs. Audit skills needed to perform this work, e.g., interview practices, sampling, formulating findings and recommendations, vetting findings, audit reports, and others will be covered.

UNDERSTANDING QUANTITATIVE RISK ASSESSMENTS (QRAS)

Course Number: **100-006** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

QRAs are useful studies but understanding what they mean and how to interpret the results may be a challenge. This class presents key concepts, explains how to interpret risk results, gives benchmarking information on global risk acceptance, and advises on how to explain risk results to management and the public.

RISK-BASED DECISION MAKING & COST-BENEFIT ANALYSIS

Course Number: **100-007** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

Risk Assessment along with Cost Benefit Analysis can be used for making more informed decisions. The class will explain a formal process for decision-making and an overview of decision analysis tools for making these decisions. It is oriented towards key decisionmakers and analysts conducting the analyses.



BEST PRACTICES IN PROCESS SAFETY & RISK MANAGEMENT

Course Number: **100-011** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Developing, implementing, and enhancing process safety programs is crucial for safeguarding personnel, the environment, and assets in industrial settings. By identifying and mitigating potential hazards, these programs prevent incidents such as fires, explosions, and toxic releases. Process Safety Management (PSM) programs ensure compliance with regulations and avoid legal liabilities. Continuous improvement of safety procedures enables organizations to adapt to evolving risks, effectively manage uncertainties, and foster a culture of safety and responsibility in the workplace.

The course provides a deep dive into PSM and explores its history, purpose, and core principles. It covers essential elements like Process Hazard Analysis, Mechanical Integrity, Operating Procedures, Management of Change, and more. Attendees learn about regulatory developments, inherent safety, reactive chemistry, combustible dust hazards, and the (CCPS) Risk-Based Process Safety (RBPS) model.

This popular “best practices” course also serves as an introduction to PSM metrics, process safety culture and safety instrumented systems. The course includes practical examples and up-to-date regulatory information to help you develop and implement robust PSM programs at your facility.

COURSE BENEFITS

- Gain an understanding of how to develop and manage effective risk management programs (PSM, in particular) that exceed regulatory requirements and enhance safety and security.
- Get up-to-date insights on the latest methods for updating and improving existing programs to achieve significant performance gains.
- Obtain a solid grasp of the key elements of process safety, backed by practical examples and real-world applications.

RECOMMENDED PREREQUISITES

Familiarization with and experience with OSHA Process Safety Management (PSM) and EPA Risk Management Program (RMP) and their requirements.

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



BUILDING A STRONG PROCESS SAFETY CULTURE

Course Number: **200-012** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Culture underpins everything in a PSM program. The process safety culture sets the tone for everything else that happens in the program. Without a sound culture, the process safety management systems cannot be successfully implemented no matter how well they are written. A sound process safety culture begins with a commitment by senior company and site management to understand and improve their process safety culture, what contributes to it, and the positive and negative signs that it exhibits in practice. Senior management has the ultimate responsibility for the culture at any industrial facility and this responsibility cannot be delegated. Management sets the proper philosophical tone for the process safety culture.

The training provides instruction in the core principles of process safety culture, how they affect each element of a PSM/RBPS program, the effects of leadership on the culture, culture and ethics, culture and compensation, how to assess process safety culture, and how to improve it.

COURSE BENEFITS

- Master the core principles of process safety culture and how they affect each element of a PSM/RBPS program.
- Understand the importance of leadership and how it affects the process safety culture.
- Learn how the core principles are applied to improve PSM and business performance.
- Learn how to assess the process safety culture in your facility.
- Understand how High Reliability Organizations find cultural excellence
- Understand how to sustain and nurture the culture and how culture affects Operational Excellence programs.
- Understand how to measure performance with audits by AcuTech's PSM Index™

RECOMMENDED PREREQUISITES

Familiarization with and experience with PSM and RMP programs and their requirements

ATI 100-011: Best Practices in Process Safety and Risk Management

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



AUDITING FOR PROCESS SAFETY & RISK MANAGEMENT

Course Number: **200-021** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Process safety audits are a useful tool to improve performance when done by experienced and knowledgeable leaders. An experienced auditor, or audit team, will use a systematic and structured approach to evaluating and improving management systems. Through these audits, organizations can identify, assess, and mitigate risks. They ensure compliance with safety standards, and continually improve safety performance while reducing the likelihood of accidents and incidents in their facilities.

This course covers the fundamental skills, techniques, and tools of auditing and how to most effectively perform your facility's Process Safety Management (PSM) and Risk Management Program (RMP) audits, with techniques that can significantly improve your audits and your process safety management performance. Instructors will dive into the characteristics of a good process safety management system to provide auditors with a benchmark for audits.

Learn from the experts - Acutech was the contractor selected to write the revision of the Center for Chemical Process Safety's (CCPS) *Guidelines for Auditing Process Safety Management Systems* in 2010-2011 and the course is based largely on the revised book, which includes the PSM program elements published in CCPS's Risk-Based Process Safety book.

COURSE BENEFITS

- Understand how to effectively manage an audit program for PSM/RMP including:
 - How to establish audit criteria, protocol, audit scope and frequency.
 - Audit reporting and follow-up of recommendations.
 - How to develop an effective audit capability.
 - The fundamentals of preparing for, conducting, and closing out an audit.
- Learn about OSHA's compliance priorities including citations, interpretations, and cases and EPA's third-party audits.
- Gain insight into key focus areas for PSM improvement.

RECOMMENDED PREREQUISITES

ATI 100-011: Best Practices in Process Safety Management
In-depth understanding of PSM and RMP programs

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



PROCESS HAZARD ANALYSIS (PHA) & LAYER OF PROTECTION ANALYSIS (LOPA) FOR TEAM LEADERS

Course Number: **200-032** Course Length: **4 days** PDHs: **32 hours**

COURSE DESCRIPTION

Process Hazard Analysis (PHA), a qualitative methodology required by OSHA and the EPA, stands as a cornerstone in the strategic management of risk for organizations and facilities dealing with hazardous materials or processes. Through systematic evaluations, PHAs meticulously unearth potential hazards within industrial processes, offering a critical foundation for risk mitigation. Identifying and comprehending these risks empowers organizations to proactively enhance safety measures, averting consequences that could lead to injuries, fatalities, property damage and more. The thoroughness of PHAs allows for the development of effective strategies to reduce the likelihood of adverse consequences.

Designed for industry professionals, this course focuses on Hazard and Operability (HAZOP), What-If, and LOPA techniques. Participants will learn how to lead, document, and manage PHAs and subsequent study recommendations effectively. Skills developed ensure compliance and effective risk management. It emphasizes leadership, report generation, and revalidation techniques, enabling leaders to optimize team performance and improve PHA quality. This PHA & LOPA for Team Leaders training advances beyond Team Member roles. It focuses on strategic oversight and the successful implementation of study recommendations.

COURSE BENEFITS

- Acquire the knowledge necessary to prepare for, lead, generate reports for, and follow-up on PHA methods commonly used for process safety including HAZOP, What-If, and LOPA studies.
- Confirm the key aspects of PHA necessary for compliance.
- Build team leadership skills to guide HAZOP and LOPA teams.
- Learn strategies to optimize team time during PHA sessions.

RECOMMENDED PREREQUISITES

Previous experience in a PHA

ATI 100-031: Process Hazard Analysis and LOPA for Team Members

ATI 200-034: Essentials of Layer of Protection Analysis (LOPA)



ESSENTIALS OF LAYER OF PROTECTION ANALYSIS (LOPA)

Course Number: **200-034** Course Length: **2 days**

PDHs: **16 hours**

COURSE DESCRIPTION

Layer of protection analysis (LOPA) is a semi-quantitative method of risk assessment that provides the middle ground between a qualitative process hazard analysis (such as a HAZOP or What-If) and a full quantitative risk analysis. Beginning with an identified accident scenario, LOPA uses simplifying rules to evaluate initiating event frequencies, enabling events and conditional modifiers of the initiating events, independent layers of protection, and consequences to provide an order-of-magnitude estimate of risk. LOPA has also proven an excellent and widely-used approach for determining the safety integrity level necessary for an instrumented safety system, an approach endorsed in industry standards, such as ISA S84.01 and IEC 61511.

The training provides complete instruction on how to lead a LOPA, and how to integrate LOPAs with PHAs. The course includes the main topics from the Center for Chemical Process Safety (CCPS) concept book on Layers of Protection Analysis: Initiating Events, and Enabling Events/Conditional Modifiers.

COURSE BENEFITS

- Learn how and when to use LOPA.
- Learn how to develop scenarios from a qualitative hazard study (i.e. HAZOP) or from a new process/changes to a process.
- Learn how to estimate the frequency category for the initiating event of a scenario.
- Learn how to determine the consequence category for the unmitigated scenario.
- Understand how to determine which protection layers meet the criteria of independence and uniqueness as independent protection layers (IPLs).
- How to determine the risk of a LOPA scenario and how to determine if further risk reduction is warranted.
- Learn industry best practices for LOPA.

RECOMMENDED PREREQUISITES

Previous experience in a PHA



DEVELOPING & MANAGING MECHANICAL INTEGRITY PROGRAMS

Course Number: **200-051** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

An effective asset integrity management program supports improved performance & uptime, reduced lifetime maintenance costs, and diminished risk of operational equipment. For that reason, investing in effective mechanical integrity programs is a proven strategy to improve overall facility performance, while also ensuring compliance with regulatory requirements.

Learn the requirements of, and how to interpret, the Process Safety Management (PSM) Standard's Mechanical Integrity (MI) element. Whether your company is large or small, you are experienced with MI or just developing an MI program, consistent interpretation of the requirements is essential.

This course provides attendees with a comprehensive understanding of Mechanical Integrity (MI) management systems, including the interpretation of MI requirements, RAGAGEPs, inspection and preventive maintenance strategies, risk-based inspection, corrosion management, the implementation of MI programs, Safety Instrumented Systems (SIS), and CMMS tools.

Gain insight from the experts that wrote the book - AcuTech played a key role in authoring both the first and second editions of the Center for Chemical Process Safety's (CCPS) *Guidelines for Mechanical Integrity Systems*. Additionally, AcuTech was chosen as the contractor to revise the CCPS *Guidelines for Auditing Process Safety Management Systems*, which offers in-depth interpretation of the MI requirements.

COURSE BENEFITS

- Learn how to interpret the MI requirements in the PSM Standard consistently.
- Master the web of relevant recognized and generally accepted good engineering practices (RAGAGEP).
- Gain knowledge and insight on Risk-based Inspection (RBI).

RECOMMENDED PREREQUISITES

ATI 100-011) Best Practices in Process Safety Management
In-depth understanding of PSM and RMP program requirements

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



INHERENTLY SAFER CHEMICAL PROCESSES

Course Number: **200-081** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course gives practical applications of Inherently Safer Design (ISD) concepts. The course prepares the attendees to lead these studies by giving knowledge on the key principles of ISD. AcuTech explains the best means to integrate ISD as a “lifestyle” into the existing management systems of the organization to institute the approach on a routine basis. Means to conduct the EPA RMP requirements for Safer Technology and Alternatives Analysis (STAA) will be highlighted.

AcuTech is the recognized market leader in providing ISD services to industry and government. We have been deeply involved in ISD for safety and security assessments and helping companies develop, improve and implement ISD management systems to manage risk. AcuTech served as the lead author for the 2nd edition of the Center for Chemical Process Safety CCPS concept book, “Inherently Safer Chemical Processes, A Life Cycle Approach.” This book is cited by regulators, researchers and safety advocates as the key reference on ISD.

COURSE BENEFITS

- Fully understand the core principles of ISD as a process safety philosophy and how it can help achieve risk reduction.
- Understand the regulatory background and requirements for applying ISD principles to achieve compliance, such as for the EPA RMP STAA.
- Learn how the core principles of ISD can be instituted as a “Inherently Safer Lifestyle™” applied to improve PSM and business performance.
- Learn how to conduct an ISD assessment for process safety.

RECOMMENDED PREREQUISITES

Familiarization with and experience with PSM and RMP programs and their requirements

Previous experience in a PHA

ATI 100-031: Process Hazard Analysis and LOPA for Team Members

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



PROCESS HAZARD ANALYSIS (PHA) & LAYERS OF PROTECTION ANALYSIS (LOPA) FOR TEAM MEMBERS

Course Number: **100-031** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

This course covers the skills necessary to participate in the PHA (as opposed to leading or facilitating one). Topics include the core PHA session activities where the team members process and operations knowledge must be harnessed to result in successful and complete study. These include the brainstorming and discussions to identify the process safety hazard scenario causes, consequences, safeguards, risk rankings and recommendations. Additionally, some of the preparation and other study activities that a team member may assist with will be described.

PHA REVALIDATION & ADVANCED TOPICS IN PHA

Course Number: **200-033** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course is customized to your facility and staff from a variety of advanced topics and includes practical workshops to improve the efficiency and completeness of PHAs. Topics may include: how to conduct revalidations, engineering project PHAs, combination PHA/LOPA, or PHA/SIL, and how to include inherent safety into your PHAs.

DEVELOPING & MANAGING MANAGEMENT OF CHANGE / PSSR PROGRAMS

Course Number: **200-041** Course Length: **2 day** PDHs: **16 hours**

COURSE DESCRIPTION

The objective of this class is to describe the requirements for change management and recommended design and the management of a change control system to manage risk in process facilities. An MOC program is an integrated system involving hazard assessment, authorizations for change, and a pre-startup safety review (PSSR) prior to implementing the change including best practice examples.



INCIDENT INVESTIGATION & ROOT CAUSE ANALYSIS

Course Number: **200-061** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

OSHA's Process Safety Management (PSM) Mandate requires that facilities investigate each incident "which resulted in, or could have reasonably resulted in a catastrophic release of highly hazardous chemical in the workplace." The mandate language provides guidance on the required elements for the investigation. However, it is limited in terms of offering direction on how to conduct the investigation effectively.

This two-day incident investigation course teaches attendees how to conduct a comprehensive investigation to find root causes of incidents and near misses. The program includes establishing an investigation management system, investigation priorities, gathering evidence (physical, interviews and documentation), reaching root causes, reporting, recommendations and response. The course also covers responding to major incidents and cooperation with OSHA, EPA, CSB and other investigative organizations.

COURSE BENEFITS

- Master proven investigation techniques to uncover the true root causes of incidents and near misses.
- Apply structured methodologies like Root Cause Analysis (RCA) to identify systemic failures.
- Enhance your ability to manage evidence collection, including physical evidence, interviews, and documentation.
- Develop skills to differentiate between immediate causes and underlying root causes.
- Gain confidence in handling interactions with OSHA, EPA, and other regulatory bodies during investigations.

CONTRACTOR SAFETY

Course Number: **200-071** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course covers the interface between contractors and the PSM program at a facility, **including** evaluation of the contractor's safety program before hire, training of contractor's employees in key process safety issues when they arrive onsite, e.g., hazards they will face, emergency actions, etc. The periodic evaluation of contractor performance, both onsite, and how they fulfill their PSM responsibilities will also be covered as well as benchmarking of best practices.

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



IMPLEMENTING EPA'S RISK MANAGEMENT PROGRAM (RMP)

Course Number: **200-091** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Topics covered include an emphasis on key RMP elements including Registration, Offsite Consequence Analysis (worst case and alternative release scenarios), 5-year Accident History, RMP Prevention Program elements such as Process Hazard Analysis, Mechanical Integrity, Operating Procedures, Management of Change, Auditing, and more. The course includes background, requirements, interpretations, clarifications, and implementation examples for PSM elements. Participants will develop the knowledge to develop and implement such programs at their own facilities.

Acquire the knowledge to plan, develop, and manage effective EPA RMP programs that meet the requirements of regulators and produce positive gains in safety and security. Leading companies choose Acutech to develop their capacity to manage risk management.

COURSE BENEFITS

- Update and improve existing EPA RMP programs to the latest EPA requirements to achieve compliance and real gains in safety performance.
- Learn the principles behind each of the elements of RMP.
- Practical examples on how to develop specific programs and procedures.
- Learn EPA enforcement activities and priorities.
- Understand the requirements for communicating risk information to the EPA, LEPCs, and the public.

RECOMMENDED PREREQUISITES

ATI 100-011: Best Practices in Process Safety Management
n-depth understanding of PSM and RMP program requirements



IMPLEMENTING CALIFORNIA'S CALARP & CALOSHA PSM PROGRAM

Course Number: **200-092** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course focuses on understanding the key aspects of two new complementary California regulations (CalOSHA) process safety management regulations, as they apply to petroleum refineries and other sources for worker and contractor safety, and the California Accidental Release Prevention program (CalARP) regulations designed to prevent the accidental release of hazardous substances that could harm public health and the environment. Recent updates to both regulations will be reviewed in depth.

IMPLEMENTING NEW JERSEY'S TOXIC CATASTROPHE PREVENTION ACT (TCPA)

Course Number: **200-093** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course will cover the elements of NJ's TCPA program, which is the nation's first multi-element, holistic process safety regulation. The TCPA has been amended over the years to include provisions for reactive chemicals, inherent safety, as well as incorporation of the federal EPOA RMP Rule to become the RMP implementing agency for RMP in NJ. The TCPA has retained a number of specific and unique original TCPA provisions, which will also be covered.

OVERVIEW OF SEMS REGULATION

Course Number: **100-101** Course Length: **1 day** PDHs: **16 hours**

COURSE DESCRIPTION

This course will cover the basic requirements contained in the SEMS regulations for offshore oil and gas facilities, as well as their interpretation. Participants gain knowledge of effective ways to comply as well as BSEE enforcement activities and best practices.



IMPLEMENTING A SEMS PROGRAM AT AN OFFSHORE FACILITY

Course Number: **200-102** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course describes the Safety & Environmental Management (SEMS) regulation and how to implement it an offshore facility. Each element of SEMS will be covered, how these elements should be interpreted, and what policies, practices, and procedure should be put in place to comply with the regulation. Topics covered include an emphasis on key SEMS elements including Process Hazard Analysis, Mechanical Integrity, Operating Procedures, Management of Change, Auditing, and more.

COURSE BENEFITS

- Acquire the knowledge to plan, develop, and manage effective SEMS programs that exceed the requirements of regulators and produce positive gains in safety offshore. Leading companies choose AcuTech to develop their capacity to manage risk management.
- Learn the latest methods for updating and improving existing programs to achieve real gains in performance.
- Learn the principles behind of each of the elements of SEMS.
- Practical examples on how to develop specific programs and procedures.
- Introduction to SEMS Metrics and Culture.

RECOMMENDED PREREQUISITES

ATI 100-011: Best Practices in Process Safety Management
In-depth understanding of PSM and RMP program requirements



Acuity® is AcuTech's innovative cloud-based software solution which allows an enterprise to gain more control over risk, while being more efficient and saving time, with safety, security and environmental management programs.

Acuity® facilitates audits and field level assessments and connects users to share organizational knowledge. It integrates and improves your existing management system processes, while empowering your teams with enhanced assessment, audit and analysis tools.

Acuity® replicates virtually any existing form of spreadsheet assessment, audit, checklist, inspection, survey, field review procedure, management walk around, pre- start-up review or other risk methodology and procedures you might be using.

Through using Acuity® assessors, teams, managers and executives have a clear and accurate view of the risk across not only at their specific site but across their entire business unit, division or corporation. Acuity® scales your risk assessment initiatives from individual projects, through to corporate wide delivering valuable insight and analysis as to the risk within the business and deliver to the users through intuitive dashboards, the areas where there is room for improvement or are out of compliance with existing policy, procedures and regulations.



ACUITY® OVERVIEW

Course Number: **100-111**

Course Length: **1 day**

PDHs: **8 hours**

COURSE DESCRIPTION

During this introductory course, those who use Acuity® as an assessor will learn about the basic capabilities of Acuity® and how to conduct audits, checklists and other risk-management assessments using the tool. Topics for this course include:

- How Acuity® is revolutionizing the management of risk information
- How to configure Acuity® for a project
- Working with Acuity®
- How teams can collaborate and share projects
- Working with dashboards
- End user configuration of Acuity®
- Working online, offline and with mobile devices
- Task management and action items

ACUITY® POWER USER TRAINING

Course Number: **200-112**

Course Length: **1 day**

PDHs: **8 hours**

COURSE DESCRIPTION

This course is designed for the Acuity® administrators and advanced users who will be managing safety, security and environmental management projects. This course is a continuation of Course 100-111: Acuity® Overview. Topics for this course include:

- Administration of Acuity®
- Defining users and roles
- Building an organizational structure, site and divisions
- Building and updating existing protocols
- Managing protocols through tools
- Setting up audits and assessment projects
- Assigning teams to projects and elements of an audit
- Developing a risk matrix for a project
- Developing heat maps for utilization on dashboards
- Importing and Exporting of project data



FIRE PROTECTION ENGINEERING IN THE CHEMICAL PROCESS INDUSTRIES

Course Number: **100-132** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

A significant hazard to gas plants, refineries, and chemical and petrochemical process facilities is fire. Therefore, fire protection is a major consideration of process safety that must be thoroughly addressed. In this course, learn how to identify and evaluate fire hazards and implement measures to reduce the fire risk. Learn how to perform fuel load analyses and understand fire protection system compliance assessment, specification, and design. Additionally, learn how to best prepare your organization in the case of a fire scenario with emergency response planning.

FUNDAMENTALS OF LOSS PREVENTION IN THE PROCESS INDUSTRIES

Course Number: **100-131** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Process Safety Management requires knowledge of best practices for basic loss prevention engineering. This class is designed to provide engineers with the fundamentals of the application of process safety concepts in technology in the design of processes, systems, and equipment. This includes active and passive safeguards, and inherent safety. Layout, materials of construction/corrosion, instrumented protective features, ignition control, fire protection, relief systems, explosion control, and design features and advice for different types of process equipment will be presented.

HUMAN FACTORS & PROCEDURE ANALYSIS

Course Number: **200-121** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course provides knowledge necessary to develop and implement a practical and comprehensive program for reducing risk related to human factors in process safety. The course will include methods for analyzing human factors and, in particular, errors in design or operation. Methods and software to systematically analyze human error and human reliability will be re-viewed. The intent is to overlay an existing PSM system with a program that emphasizes human factors considerations. This course is intended to develop your knowledge on the principles of human error, human reliability, and human factors in design. Also included is advice to practice methods such as human factors surveys, HAZOP of procedures, and Task Analysis techniques.

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



COMBUSTIBLE DUST MITIGATION & MANAGEMENT

Course Number: **200-142** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

This course will cover combustible dust properties, the nature of dust hazards and explosions, i.e., primary explosions, secondary explosions, and propagating explosions. Also, the guidance contained in current industry practices for combustible dust such as NFPA-652, NFPA-654, and others will be included, e.g., formal housekeeping programs. Also, guidance on performing formal combustible dust assessments will be included.

FACILITY SITING

Course Number: **200-143** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Facilities covered by the OSHA Process Safety Management Standard, 29 CFR 1910.119 must evaluate facility siting as part of Process Hazard Analysis (PHA). To meet this requirement, the recommended practices from the American Petroleum Institute (API 752 - Permanent Buildings; API 753 - Portable Buildings) and guidelines from the Center for Chemical Process Safety

(CCPS) are typically referenced when evaluating the potential impacts and risk to onsite occupied buildings. While these references provide an overview for conducting a siting analysis, they are not prescriptive, as such a range of techniques ranging from simple checklists, screening analysis, consequence modeling to full Quantitative Risk Analysis (QRA) are used to meet the intent of the PSM requirement.

COURSE BENEFITS

- Overview of the OSHA PSM facility siting requirements
- Overview of API 752, API 753 and CCPS facility siting guidelines
- Facility siting techniques
- Benefits and weaknesses of qualitative and quantitative facility siting assessments
- Identification and selection of occupied buildings
- Consequence and impact assessment and tools
- Guidelines for selection of accidental release scenarios

RECOMMENDED PREREQUISITES

Experience with PSM requirements and PHAs

Contact us at contact@acutec-consulting.com for details or to schedule this training onsite at your facility.



QUANTITATIVE RISK ASSESSMENT (QRA)

Course Number: **200-141** Course Length: **3 days** PDHs: **24 hours**

COURSE DESCRIPTION

Quantitative risk assessment (QRA) is a valuable tool for assessing and managing risks. The technique provides a structured and quantifiable approach to risk analysis, enabling organizations to make accurately informed decisions and prudently manage process risks. QRA can be used to inform every aspect of process risk management, including: site selection and layout, process and safety system design, emergency planning, spacing requirements for installations, process deviation control, fire protection design, gas detection layout, and emergency isolation measures, among others.

While quantitative risk assessments are highly valuable, understanding and interpreting their results can be challenging for many professionals. This course breaks down key concepts, offers clear guidance on interpreting risk outcomes, provides benchmarking insights on global risk acceptance, and equips participants with the skills needed to effectively communicate risk results to both management and the public.

AcuTech's quantitative risk team are experts in the field. They use the latest industry risk models (DNV Phast and Safeti, Gexcon EFFECTS and RISKCURVES, FLACS), proprietary QRA modeling tools, the latest historical accident data, and practical methods to ensure QRA studies accurately assess complex operations to produce clear and actionable results. This makes them the ideal instructors to guide you in applying these insights to real-world scenarios with confidence and precision. The instructors understand that both technical accuracy and effective communication are key to unlocking the full potential of QRA.

COURSE BENEFITS

- Master the interpretation of QRA results to make informed decisions and effectively communicate risk to stakeholders.
- Gain insights into global risk acceptance benchmarks and learn how to apply them to your organization's risk management strategies.
- Enhance your ability to utilize industry-leading risk models and tools for accurate and actionable QRA assessments.



OCCUPATIONAL SAFETY & HEALTH BASICS

Course Number: **100-151** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

The course is customized to your operations to address key basic occupational safety and health program elements and regulatory requirements such as hot work, lockout/tagout, confined space and other OSH aspects relevant to the process industries. AcuTech has provided OSHA inspection expertise in webinars for the Center for Chemical Process Safety (CCPS) and other organizations. We can provide a variety of training formats from a one-hour webinar to a more detailed on-site course.

INDUSTRIAL HYGIENE

Course Number: **100-152** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course covers fundamental principles of IH as applied to the process industries and how IH and PSM are interrelated. It covers how to conduct an exposure assessment and gap analysis, hazard evaluation techniques, toxic and combustible dust management, and other concepts of IH including containment, sampling, and personal protective equipment.

OSHA VOLUNTARY PROTECTION PROGRAM (VPP) COMPLIANCE

Course Number: **100-153** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course will cover the basic application, audit, and continuing evaluation for process for achieving OSHA's Voluntary Protection Program (VPP) Star and Merit status. Technical aspects such as expectations of OSHA and each regulation relevant to the VPP program for the process industries will be explained.



SECURITY RISK ASSESSMENTS (SRA) STANDARD 780

Course Number: **200-171** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

In the dynamic landscape of industrial operations, security risk assessments (SRAs) serve as a strategic imperative. They offer a comprehensive understanding of vulnerabilities across physical infrastructure, technology systems, and operational processes. These risk assessments are essential for organizations as they identify, mitigate, and prioritize potential risks, helping in proactive risk management, compliance maintenance, and overall operational resilience. By evaluating security vulnerabilities in protective systems, procedures, and infrastructure, assessments enable organizations to effectively allocate resources, prioritize critical threats, and mitigate or prevent security incidents. They provide valuable information for informed decision-making and facilitating the development of robust business continuity and disaster recovery plans.

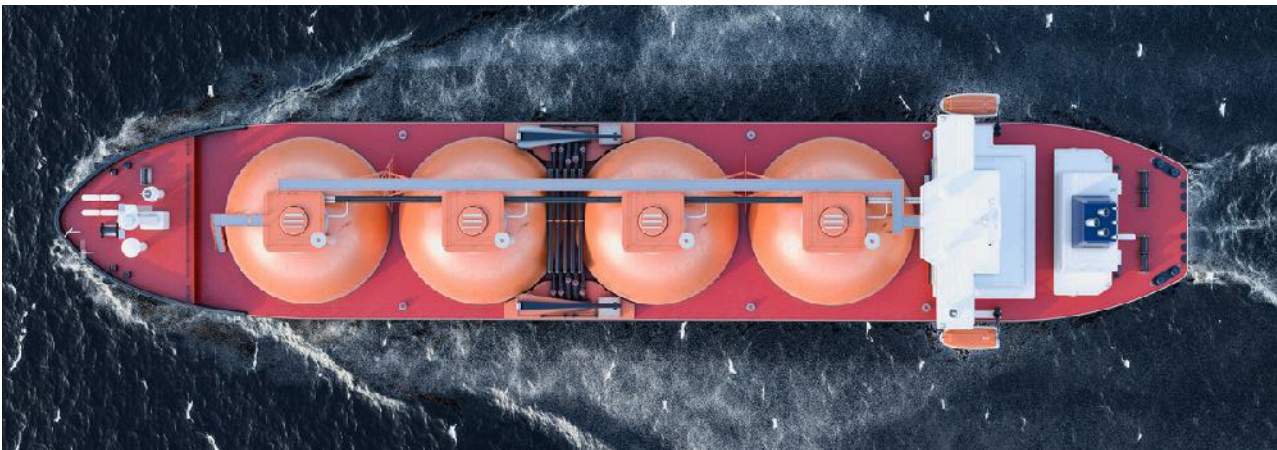
This course covers all aspects of conducting SRAs, from identifying threats to evaluating risk treatments. Led by seasoned professionals, you'll learn to conduct SRAs, to identify security hazards, threats, and vulnerabilities facing a facility. You will gain an understanding of how to evaluate the countermeasures to provide for the protection of the public, workers, national interests, the environment, and the company.

Gain hands-on experience from the industry experts who wrote the standard. AcuTech was the contractor selected to develop the ANSI/API Security Risk Assessments Standard 780. The course instructors have practical hands-on knowledge from performing SRAs on hundreds of facilities and delivering this course using traditional classroom settings.

COURSE BENEFITS

- Master the SRA methodology: Characterization, Threat Assessment, Vulnerability Assessment, Risk Evaluation, and Risk Treatment
- Conduct SRAs using ANSI/API Standard 780 methodology
- Learn about emerging security regulations and industry activities
- Participate in practical group exercises and competency exams

Contact us at contact@acutech-consulting.com for details or to schedule this training onsite at your facility.



AUDITING FACILITY SECURITY FOR MARITIME COMPLIANCE (MTSA, CFATS, ISPS, HCIS)

Course Number: **200-172** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This one-day program provides the skills needed to conduct audits as required under the Marine Transportation Safety Act (MTSA) and the Chemical Facility Anti-Terrorism Standard (CFATS). Both programs include government-based inspections/audits and require facilities to conduct periodic internal compliance audits against security plans for the covered facility.

COURSE BENEFITS

- Review of the current MTSA, CFATS, ISPS, HCIS regulations and audit requirements
- Learn the fundamentals of preparing for, conducting and closing out an audit
- Learn how to set audit scope and frequency
- Learn the importance of utilizing a documented audit procedure
- Learn how to address and document repeat findings
- Learn reporting and follow-up practices and procedures
- Learn proper staffing for an audit
- Learn how to resolve audit dilemmas
- Guidelines for auditing facility security plans
- Benefits of incorporating lessons learned from government inspections/audits



PORT FACILITY SECURITY OFFICER (PFSO) COURSE

Course Number: **200-173** Course Length: **3 days** PDHs: **24 hours**

COURSE DESCRIPTION

This 24-hour IMO approved program provides the skills needed to learn about the requirements for Port Facility Security Officers. Course materials include references to over 30 helpful related documents. Attendees will learn how to perform a compliance audit, proper documentation of findings and recommendations, reporting requirements of the regulation, and the latest developments.

COURSE BENEFITS

- Provisions of the Port Facility Security Assessment (PFSA) and the Port Facility Security Plan (PFSP)
- Meaning of different security levels
- Detecting dangerous substances and devices
- Recognition of threatening persons
- Techniques to circumvent security measures
- Conducting Vehicle searches
- Record-keeping and operational security
- Security-related communications and systems



INSIDER THREAT MANAGEMENT

Course Number: **100-174** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

This course provides the foundation for the phased implementation of insider threat identification and management program ongoing implementation. The training identifies Team composition, threat awareness, risk factors, roles and responsibilities, governance, technical support, integration with cyber shareholders, and verification audits.

INTRODUCTION TO SECURITY COUNTERMEASURES

Course Number: **100-175** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

The course is designed to provide an overview of personnel-based, procedural and technical security strategies, and approaches, as well as systems/equipment that can be used to address access control, intrusion detection, surveillance and adversary delay to provide cost effective protection of company assets and personnel. A portion of the class time will be dedicated to working example cases and/or sanitized attendee presented cases and problems.

CHEMICAL REACTIVITY HAZARDS FOR SECURITY PERSONNEL

Course Number: **100-176** Course Length: **1 day** PDHs: **8 hours**

COURSE DESCRIPTION

It is essential for security personnel to be aware and understand the hazards involved. An uncontrolled chemical reaction can have a range of results from the boiling over of the reaction mass, to large increases in temperature and pressure which could lead to an explosion and massive damage. If flammable materials are released, fire or a secondary explosion may result. A released toxic material may contaminate the workplace or generate a toxic cloud that may spread over wide areas. Without proper controls involving security a chemical reaction could have devastating results.



SUPPLY CHAIN SECURITY

Course Number: **100-177** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

AcuTech has developed a seven (7) module remote learning solution for conducting and managing security supply chain assessments. The supply-chain tool (SCT) uses a series of four (4) inter-related excel-based files (worksheets) which together provide the framework for assessing supply-chain security risk. The SCT provides a means of conducting supply-chain risk assessments for a wide variety of assets and operations and subsequent analysis to provide management insights that address comprehensive supply-chain security concerns. The training addresses assumptions, details, and analysis results needed for comprehensive security supply-chain risk analyses that can be assembled, assessed and documented by Team Leaders with the training needed to conduct the assessments.

Module 1 - Assessing Supply Chain Security Risk & Practical Exercise

Module 2 - Threat Assessment & Practical Exercise

Module 3 - Best Practice Security Requirements & Practical Exercise

Module 4 - Cyber Security & Practical Exercise

Module 5 - Formal Security Risk Assessment

Module 6 - Governance

Module 7 - Response, Emergency/Crisis Management, and Business Continuity



EMERGENCY PLANNING & RESPONSE FOR THE PROCESS INDUSTRIES

Course Number: **100-161** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Understand principles of emergency response planning and response for the process industries including best practices and regulatory requirements. Review requirements and learn about regulatory specifics such as the EPA RMP “§ 68.180 Emergency response program and exercises”. Topics include how to develop a scenario-based risk register for emergency response planning, mechanisms to notify the public and emergency responders, drills and exercises.

BUSINESS CONTINUITY & CRISIS MANAGEMENT

Course Number: **100-162** Course Length: **2 days** PDHs: **16 hours**

COURSE DESCRIPTION

Business Continuity and Crisis Management principles including the planning, organizing, leading and controlling activities which must be undertaken before, during and after catastrophic and crisis situations in order to properly and effectively reduce the loss of resources essential to the organizations’ eventual full recovery. The class emphasizes the value of risk assessment as a basis of planning, and then the determination of means to achieve a highly resilient organization as the goal. The course defines and provides a comprehensive understanding of BC& CM in all its phases including crisis planning and preparation process, risk identification, risk assessment, mobilization, response, recovery and plan testing. Overview of international standards related to crisis management and business continuity. Included is an overview of international standards and best practices including NFPA 1600 and ISO 22301 & 22313.

Ensuring the Safe & Secure Transition to a Sustainable Future

Operating since 1994, AcuTech is a global leader in providing best-in-class consulting, training, and software solutions to manage process risk. With deep expertise in both the management and technical aspects of managing risk, AcuTech is uniquely positioned to support clients ranging from the world's largest companies to specialized private companies.

AcuTech also partners with trade organizations and government agencies seeking to improve safety, security, and operational performance.

AcuTech supports the international market with a presence in the US, India, Asia-Pacific, Europe, and the Middle East and plans to expand our global network of consultants to provide support and consistency in delivery across client sites.



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for more
information.**

WHAT WE DO

Partner for Success

AcuTech offers three core categories of services: process safety management, corporate security, and emergency management, primarily focusing on industries dealing with highly hazardous chemicals. This encompasses various market sectors, including chemical, petrochemical, petroleum, transportation, and other chemical manufacturers. Services also extend to pharmaceutical, manufacturing, government, and others including specialized and emerging industries, focusing on global decarbonization, such as LNG, hydrogen, and anhydrous ammonia.

AcuTech complements its extensive experience across the chemical process industries with a deep understanding of the tools and methods available for managing risk. This allows our consultants to be responsive and flexible, meeting client needs ranging from regulatory compliance to leadership in all of our services. AcuTech consultants possess strong project management skills, and emphasize high-quality, on-time project work.

