ASP

ACTIVE SAFE PROCESS

BODY OF KNOWLEDGE
HUMAN & ORGANIZATION
FACTORS





BUSINESS PROPOSAL

PREVENTING THE FUTURE

Transforming Strategic Thinking to Improve Safety Performance



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Our Company

Active Safe Process, was created with the purpose of assistant organizations and professionals of safety, quality and environment to meet the legal, regulatory and other requirements in different industrial sectors. In addition, our approach is the development of a safety culture, which prioritizes human and organizational factors.

Introduction

Attitudes, values, and our commitment to the safety and health of people can influence better decisions and actions at work every day. Safety Culture is a good reflection of how well the Human and Organizational Factors are in the workplace.

While the organization can Influence Culture, true Safety Culture transformation will result from employee empowerment through visible and positive leadership from those who manage them.

Core Values

- RELATIONSHIPS OF **TRUST AND RESPECT**
- FOCUSED ON **COLLABORATION**
- WE PRIORITIZE **THE SIMPLE**
- WE BELIEVE IN **INNOVATION**



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Mision & Vision



MISION 01

EMPOWER FOR CHANGE



VISION 02

- PROTECT PEOPLE
- BUSINESS CONTINUITY
- DO IT BETTER WITH QUALITY

COMMITMENTS 03

PROTECT PEOPLE

- We integrate Management Systems - Human and Organizational Factors - Technical Tools - Critical Control

EMPOWERING YOURSELF FOR CHANGE

- Prevention and protection from potential threats, through positive reinforcement of the organization's strengths and opportunities in its context and scope.

COLLABORATION AND INNOVATION

- We promote personalized service for our clients and stakeholders.

BUSINESS CONTINUITY

- ASP Serious Incident & Fatality (SIF) Prevention Model.
- Prioritize Critical Control Management (CCM) and
- High-Energy Control.



INDUSTRIAL SECTORS

Active Safe Process *operates across a variety of industrial sectors to protect people, assets, and the environment from potential risks or threats.*

● Manufacturing ● Energy ● Oil & Gas ● Mining & Metals

● Infrastructure ● Industrial & Commercial

● Health and Food ● Beverage Plants













MANAGEMENT SYSTEM



IMPROVEMENT

A **Performance Management System,** monitors how things are done (individual and group) in a consistent and measurable manner. In managing a system, data and information are sought based on the four key elements of improvement:

- **Plan**
- **Do**
- **Check**
- **Act**

WE DESIGN

We design, implement, monitor, and improve:

- Accordance Systems based on the ISO 9001: 2015, ISO 14001: 2015, and 45001:2018 Standard
- Audit systems based on the ISO 31000:2018 standard
- OSHA / MSHA / NRC / USACE compliance programs and plans
- Audit programs and plans based on OSHA / MSHA / NRC / USACE



WE DEVELOP

- Aligning Core Values with Management Systems
- Initial assessment or audit, design, and maintenance of the Management System for Quality (ISO 9001:2015), Environment (ISO 14001:2015), and Occupational Health and Safety (ISO 45001-ISO 31000:2018)
- Use of internal auditing techniques, evaluation, inspections and behavioral observation to comply with the Workplace Safety and Health Program or Plan, based on OSHA requirements by Industrial Sector
- Design and monitoring of the Occupational Health and Safety Program or Safety Plan
- Design and maintenance of the Occupational Health and Safety System / Program for Contractors
- Information-based training competencies (System and Program or Plan requirements)

SAFETY CULTURE



Activate the Safety Culture in your Organization

To adopt a **Sustainable Safety Culture** over time, active employee participation is essential.
When **employees actively participate** in defining safety practices and providing feedback, they not only improve safety measures but also strengthen their sense of ownership and commitment to workplace safety.
Leaders must **demonstrate their commitment** to safety through clear and open communication, leading by example, and visibly involving employees in safety initiatives.

Our Approach:

The company can improve safety by considering all variables in the context of industrial risk:

- Management System - Human and Organizational Factors - Technical Performance & Critical Controls
- We promote that all members of the company know each other and understand the factors that influence
- We educate and train members of the management and operations team

Our Solutions:

- Initial Culture Assessment
- Design of Strategic Pillars
- Development of the Strategic Plan
- Design of Performance Indicators
- Monitoring of Culture Implementation
- Culture Assessment Surveys
- Audits of Compliance with Strategic Pillars



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HUMAN AND ORGANIZATIONAL FACTORS



In always evolving business conditions, the success of any organization depends not only on its technical processes and tools, but also on its ability to effectively **manage human and organizational factors**. These factors, which include **organizational culture, visible leadership, effective communication, competency developmen**t, and others, are critical to creating a safe, efficient, and resilient work environment.

Our Approach:

NOur approach to **Human and Organizational Factors Management** is geared toward enhancing organizational performance through the alignment of people, processes, and culture.

We recognize that a **strong organizational culture**, with **visible and committed leadership**, **effective communication, and ongoing skills development**, is key to risk prevention, continuous improvement, and business resilience.

Our Solutions:

- Organizational Culture Assessment
- Safety Leadership Development
- Communication Techniques in the Organization
- Risk Management Skills Training
- Organizational Resilience Assessment and Improvement
- Behavior-Based Safety (BBS) Program, Development and Implementation

IMPROVING HUMAN PERFORMANCE







RISK MANAGEMENT

Introduction

The change in significance of an event's consequence, and particularly its effect on objectives, further clarifies that risk management is goal-oriented and clarifies the fact that not all uncertain consequences arise from discrete events. Uncertain outcomes can arise from ongoing situations or chronic exposures without a discrete event.



Our Solutions:

- Risk Management Standard Operating Procedure Design & Develoment
- Site and Facility Inspections & Assessments
- Process Flow Diagram Design
- Hazard Analysis Design & Assessments
- Activity Risk Analysis Design & Assessments
- Critical Controls Program Design and Develoment
- Critical Control Management (CCM) Design & Develoment
- Top Event Analysis and Evaluation, related to the Bow-Tie Technique
- Risk Management Compliance Audits (Processes - Activity - Work)



Training and Competencies (Skills)

- Risk Matrix - Development for the Field
- Hazard Analysis (JHA) / (AHA)
- Safety Risk Management
- Critical Control Management (CCM)
- High Energy Control
- Risk Assessment and Management
- Risk Management System
- Cause-by-Changes Analysis
- Industrial Safety Manager

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PREVENTION OF SERIOUS AND FATAL INCIDENTS



Redefining the Prevention of Fatal Incidents

EIn the case of incidents that are the precursors to the new accident triangle, action plans must identify and address the behaviors, analyzing the other process elements represented by the different levels of the new triangle that change how serious and fatal injuries are prevented. It is unlikely you will find an organization that does not want to prevent serious or fatal injuries (SIF).

Precursors and Critical Risk (SIF)

The traditional Heinrich triangle can be modified to include the form and context of workers' activities as precursors to serious and fatal incidents. A precursor to a serious or fatal incident is defined as a high-risk situation in which management controls are absent, ineffective (fail), or not enforced, and which will result in serious injury or death if allowed to continue.

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What We Do:

- Strategic Program for Incident Prevention
- Identification of High-Risk Events (loss or damage)
- Analysis of High-Risk Activities
- Design of Standard Operating Procedures
- Protocol for High-Risk Activities
- Education and Training for Managers and Supervisors
- Compliance Audit

MACHINERY AND EQUIPMENT



To achieve maximum productivity, machinery and equipment must be in good structural and electromechanical condition. We conduct inspections of your machinery and equipment, and we can also include a risk assessment that evaluates compliance with legal and regulatory requirements, as well as the client's internal requirements.

We have qualified inspectors to verify the condition of cranes and rigging. In our risk assessments, we propose comprehensive solutions for this equipment and machinery. We comply with OSHA and MSHA standards, and we add value to our services with technical assistance through training plans (theoretical and practical instruction and learning) and operational procedures (design and implementation).

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1. Design of Standard Operating Procedures
2. Safety Analysis for Machinery and Equipment
3. Certification and Training of Equipment Operators
4. Inspection and Evaluation of Machinery and Equipment

MANAGEMENT CRITICAL CONTROLS

What We Do:

The approach we developed is called Critical Control Management (CCM). This approach is well-developed and used in several high-risk industries. However, there are still industries that can develop these best practices in risk management through a modern, simple, and innovative approach.

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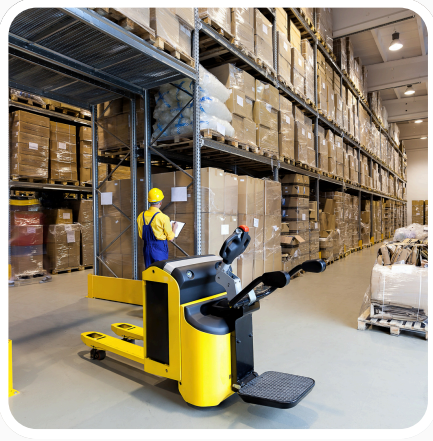
Critical Controls

1. AHigh-Risk Activity Analysis (HHA)
2. High Potential Incident Prevention Standards
3. Critical Safety Risk Control Program
4. Critical Controls Education and Training

We are experts in best practices for preventing serious or fatal injuries, and we can lead an organization or facility/project to develop an ideal safety compliance program with a focus on risk-based process management.









INCIDENT INVESTIGATION

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An essential part of analyzing risks associated with high-impact incidents is providing management with information—based on specific criteria—to support decision-making and to establish thresholds for risk categories deemed unacceptable within an organization. Effectively managing all potential safety and process-related risks is crucial when investigating incidents, as it helps prevent their recurrence. Furthermore, it is important to transform data into knowledge—by way of actionable information—thereby fostering continuous learning.

Incident Investigation

1. Incident Investigation Standards (ICAM, SCAT™)
2. Analysis of Incident Information and Data
3. Corrective Action Plan Proposal (Root Cause)
4. Education and Training in Incident Investigation

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CONTRACTOR LIFE CYCLE



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Safety Performance

Companies that engage the services of contractors must ensure that those contractors and their employees are not exposed to uncontrolled health and safety risks. The hiring company has the same duty of protection toward its contractors as it does toward its own employees. Contractors must also be proactive in identifying and reporting potential hazards in the workplace.

What We Do:

- Design of a Contractor Management Standard
- Performance-Based Contractor Selection
- Legal and Regulatory Documentation Framework
- Organizational Procedures – Management System
- Procedures - Operational Control
- Procedures - Monitoring and Supervision
- Procedures - Performance Evaluation
- Performance Review and Audit







EDUCATION AND TRAINING



What We Do:

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Laws and regulations require companies to provide education, training, and certifications to employees who are exposed to workplace hazards. We create materials for such education, training, and certification. These training programs and certifications address human and organizational factors related to risks, machinery and equipment, and the work environment (exposure to contaminants, fire, etc.).

OSHA

- **Construction Industry: 10 and 30 hours**
- Fall Protection
- Scaffold Safety
- Confined Spaces (29 CFR 1926.1200)
- Electrical Safety
- Excavations and Trenches
- Cranes and Rigging (29 CFR 1926.1400)
- Maintenance of Traffic (MOT)
- Machinery Operator Certification
- **General Industry: 10 and 30 hours**
- Forklift Operator Certification
- Hazard Communication (29 CFR 1910.120)
- Electrical Safety – Lockout/Tagout
- Lockout/Tagout (LOTO)
- Confined Spaces (29 CFR 1910.146)
- Emergency Plan

MSHA

- Training for New Miners
- Training for Experienced Miners
- Operator Certification
- Specific Training (risk-based)

NRC

- Hazardous Materials Fundamentals
- Radiation Safety Officer
- Nuclear Density Gauge Safety

USACE

- Fundamentals and Understanding of Manual 385-1-1 Standards
- Specific Training (risk-based) in compliance with USACE

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SPECIALIZED COURSES





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STRATEGIC SAFETY PLAN

The purpose of this course is to establish a comprehensive work plan for both the organization and the occupational health and safety (OHS) professional, ensuring the protection of organizational assets, the health and safety of personnel, and business continuity. The goal is to create a safe and healthy environment through the implementation of effective policies and procedures, continuous risk assessment, and efficient coordination across all departments.

This course introduces participants to key concepts in strategic planning and management control within the field of Occupational Health and Safety (OHS).

The instructor will guide participants in designing a robust OHS strategic plan, ensuring that health and safety objectives are aligned with the organization's vision and mission. Participants will learn to implement action plans that facilitate the achievement of desired outcomes (strategic objectives). By the end of the course, participants will have developed the skills to create an effective strategic plan that fosters a culture of safety within their organizations.

The course is divided into several modules that allow for an in-depth exploration of the core topics covered in the program, including:

- **Development of Safety Strategies**
- **Coordination with Departments and Key Personnel**
- **Strategic Pillars Management Plan**
- **Performance-Based Work Plan**

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SAFETY MANAGER

This program offers practical and effective training in strategic and operational management for individuals seeking to qualify for the role of Security Manager across various industrial sectors.

This role requires knowledge, understanding, appreciation, and application of legal and regulatory policies and procedures, management systems, organizational culture, human and organizational factors, risk management, leadership skills, the ability to guide individuals and work teams, complex problem-solving, data analysis, and other key competencies. The following topics are essential for the performance of a Safety Manager within an industrial setting:

- **Introduction to Safety Systems (ISO 45001)**
- **Introduction to Safety Culture**
- **Risk Management (ISO 31000)**
- **Strategic Work Plan**

Each participant will acquire the essential knowledge, skills, and competencies required to perform as a Security Manager within their organization or to advance to a higher level. A manager's decision-making is critical to the strategic and operational plans in any economic sector.



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RISK MANAGEMENT (ISO 31000)

This course is designed for a wide range of professionals in the industrial sector, including managers, superintendents, supervisors, and experts across various functional areas such as engineering, safety, human resources, and finance. Our mission is to empower each participant to become a leader in risk management, capable of implementing meaningful changes within their organizations.



Throughout the course, you will learn not only to understand and apply the principles of risk management but also to evaluate and improve how your team makes decisions and addresses operational challenges. Your participation in this program will not only transform your personal approach to risk management but will also contribute to a cultural shift within your organization.

The course is divided into several modules that allow for an in-depth exploration of the key topics covered in the program, including:

- **Risk-Based Safety Culture**
- **Introduction to the ISO 31000 Standard**
- **Risk Assessment Tools**
- **Job Safety Analysis / Activity**
- **Design of Risk Management Systems**

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MANAGEMENT OF KEY OHS INDICATORS

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The Training Program on the Management of Key Occupational Health and Safety (OHS) Indicators aims to develop competencies in strategic planning and management control. Through a systematic approach, participants will learn tools to define and utilize indicators for evaluating OHS performance. This process includes setting objectives and goals aligned with the organization's overall strategy, as well as identifying areas for improvement and implementing corrective actions.



KPI´S PERFORMANCE

The program covers various methodologies and tools that will enable participants to establish and apply a robust management control system. From strategic planning and results reporting to process improvement, each module is designed to equip participants with the skills needed to drive a significant shift in the safety culture within their respective organizations.

The course is divided into several modules that provide an in-depth look at the core topics covered by the program, including:

- **Strategic Planning**
- **Measurement of Results-Based Management**
- **Input-Process-Output-Impact Model**
- **Management Control**
- **Organization and Process-Oriented Approach**



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TRAINER OF TRAINERS

The "Train the Trainer" course is designed to equip professionals with the competencies needed to design, deliver, and evaluate effective training programs, with a focus on adult education.

In a dynamic work environment, the ability to efficiently convey knowledge and skills is essential for the ongoing development of any organization.

This course provides pedagogical tools, facilitation techniques, and strategies for managing learning groups with varying levels of experience.



COURSE OBJECTIVES:

- **Developing pedagogical skills:** Participants will learn effective methods for teaching and training others, adapting their teaching style to the profile of the group.
- **Strengthening communication capacity:** Improving verbal and non-verbal communication skills to facilitate the understanding and retention of knowledge.
- **Designing effective training programs:** Acquiring tools to design structured, relevant courses that are aligned with the organization's objectives.
- **Implementing assessment and feedback techniques:** Establishing mechanisms to measure learner progress and provide constructive feedback.
- **Group management and session facilitation:** Learning how to maintain motivation, manage group dynamics, and handle complex situations during training.

The course is divided into several modules that allow for a deeper exploration of the key topics covered within the program, including:

- **Fundamentals of the Training Process**
- **Design of Training Programs**
- **Facilitation and Presentation Techniques**
- **Evaluation and Feedback**
- **Management of Group Dynamics**
- **Training Practice**

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30 HOURS IN THE CONSTRUCTION INDUSTRY



This course covers OSHA standards, policies, and procedures for the construction industry. Topics include the scope and application of OSHA standards, as well as safety and health principles, with a special emphasis on the most hazardous areas in the workplace.

Upon completion of the course, participants will be able to define construction industry terms as used in OSHA standards, identify and analyze hazards common to the industry, locate and determine the appropriate OSHA standards, policies, and procedures, and describe how OSHA standards and regulations can be used to support a safe and healthy workplace. Upon course completion, workers who have been trained will receive a completion card (applicable within the U.S. jurisdiction).

The course covers several topics in accordance with OSHA requirements for this type of training, as follows:

Electives and Optional (16 Hours)

- Powered Industrial Vehicles
- Confined Spaces
- Steel Erection
- Hand and Power Tools
- Welding
- Fall Protection
- Material Handling Equipment
- Accident Investigation
- Excavations and Trenches
- Cranes and Derricks
- Scaffolding

Mandatory (14 hours)

- Introduction to OSHA
- Safety and Health Management
- 4 Focus Hazards in Construction
- Personal Protective Equipment
- Stairs and Ladders
- Health Hazards in Construction

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CONSTRUCTION INDUSTRY
30 HOURS

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30-HOUR GENERAL INDUSTRY



The goal of the **OSHA Outreach Training Program for General Industry** is to educate workers in general industry about their rights, employer responsibilities, and how to file a complaint, as well as how to identify, reduce, avoid, and prevent work-related hazards.

OSHA authorizes safety and health professionals who complete an **OSHA Outreach Training Program** course for General Industry to conduct occupational safety and health training for general industry workers. Upon completion of the training, instructors document the training with their Authorizing Training Organization (ATO) and receive course completion cards to distribute to the workers they have trained (within the U.S. jurisdiction).

The course covers several topics in accordance with OSHA requirements for this type of training, as follows:

Electives and Optional (18 Hours)

- Hazardous Materials
- Permit-Required Confined Spaces
- Lockout/Tagout
- Machine Guarding
- Cutting and Welding
- Introduction to Industrial Hygiene
- Bloodborne Pathogens
- Ergonomics
- Fall Protection
- Safety and Health Programs
- Powered Industrial Vehicles

Mandatory (12 hours)

- Introduction to OSHA
- Safety and Health Management
- Walking and Working Surfaces
- Emergency Planning and Exit Routes
- Fire Prevention and Protection Plans
- Personal Protective Equipment (PPE)
- Electrical
- Materials Handling
- Hazard Communication

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GENERAL INDUSTRY
30 HOURS

CRANES AND RIGGING



There is more than one reason to obtain **certification for operating cranes and heavy machinery**. First, crane and heavy machinery operators are among the highest-paid equipment operators in the heavy construction industry. Second, there is high demand for such professionals; and third, qualified operators enhance productivity within your company.

We have **qualified inspectors available to assess the condition of cranes and rigging equipment** (including mobile cranes and overhead/bridge cranes). As part of our risk assessments, we propose comprehensive solutions for the use of this equipment and machinery. We ensure compliance with OSHA standards and add value to our services by providing technical assistance, including training plans and operational procedures. Our services prioritize the safety of those who operate the equipment, as well as those working in the surrounding area.

What we offer:

- Crane and Rigging Management System
- Programs and Procedures
- Control Forms and Records
- Crane and Rigging Inspections
- Lifting Plan (Rigging Plan) Design and Review
- Safety Analysis – Incident and Failure Prevention
- Training for Cranes, Hoists, and Equipment
- Crane and Hoist Certifications (Inspections)
- Accident/Incident Investigation and Reporting
- Prevention of Serious or Fatal Injuries, and
- Other services as required by the Client



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FORKLIFT OPERATION

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It goes without saying, but forklifts can appear simple to operate; consequently, all too often, someone gets behind the wheel without having received proper—or any—training. It is not just about learning how to operate the machine; it is also about understanding its limitations and knowing how to prevent accidents by operating it safely in a work environment where other people are present. If you are unsure where to begin, look for a training guide that ensures compliance with OSHA requirements.

Forklifts are prone to tipping over, which is a particularly dangerous type of accident. It is estimated that while 24% of all forklift accidents are tip-overs, they account for 42% of all recorded injuries. In other words, if you are involved in a forklift tip-over, you are more likely to sustain serious injuries.

Forklift accidents involving pedestrians are another particularly dangerous type of incident, causing a disproportionate number of serious injuries. Approximately 20% of forklift accidents involve a pedestrian, yet these account for 36% of all forklift-related fatalities.
Collisions with pedestrians encompass several different types of incidents in which a forklift:

- Crushes a pedestrian against a stationary object (25% of all recorded forklift-related injuries)
- Strikes or runs over a pedestrian (11%)
- Crushes a pedestrian between two vehicles (11%)
- Falls onto a pedestrian or strikes a pedestrian while falling (8%)

What we offer:

- Design of a Program and Plans for Forklift Operations
- Development of Standard Operating Procedures (SOPs)
- Critical Risk Assessment for Forklift Operations
- Job Hazard Analysis (JHA) and Job Safety Analysis (JSA)
- Forklift Safety Training (for Operators)
- Accident Investigation in Forklift Operations
- Forklift Inspection and Certification
- Consulting for OSHA / PR-OSHA Inspection Compliance, and
- Other services as required by the client

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FALL PROTECTION

Falls accounted for 37% of construction-related deaths in 2021. OSHA standards require fall protection whenever a construction worker is 6 feet or more above the ground. The specific OSHA standard for fall prevention is 29 CFR 1926.500.

For the past thirteen years, the federal safety regulation most frequently ignored or violated in this country has been the fundamental safety rule that protects workers against serious or fatal falls on the job.

In the course of these construction efforts (whether working on commercial or residential sites) construction workers face various types of fall risks, including:

- Falling from a height while working on a roof;
- Falls from scaffolding;
- Falls from ladders;
- Among other risks in the workplace

What we offer:

The services include the following solutions for activities where workers are exposed to falls from a height (from a different level):

- Designing the company's risk profile
- Reviewing the potential severity of incidents
- Proactive tools for planning, organization, and supervision
- A systems-based model for the prevention of severe or fatal injuries
- Designing protocols for the prevention of serious or fatal injuries
- Competent persons for fall prevention and protection
- Developing standards and guidelines for fall prevention and protection
- Risk assessment and control in the workplace
- Measuring and analyzing workplace risks
- Designing an audit tool for the risk profile
- Auditing of fall prevention and protection, and
- Other services as required by the client





SCAFFOLD AND MOBILE ELEVATING WORK PLATFORM

According to the U.S. Bureau of Labor Statistics (BLS), scaffold-related accidents result in approximately 60 deaths and 4,500 injuries annually nationwide. Falls from scaffolds account for roughly 25% of all fatal falls from work surfaces. In the BLS study, 72% of workers injured in scaffold accidents attributed the incident to the planking or support giving way, slipping, or being struck by a falling object. All of these risks can be managed through compliance with regulatory standards.



Scaffold platforms must be fully planked—to the extent possible—secured, and equipped with guardrails to ensure the safety of those using them. Workers should not accumulate materials on scaffolds, and all tools and materials must be removed at the end of the workday. Overloading scaffolds must be avoided, and workers should not work on them during high winds or adverse weather conditions.

Despite the efforts of companies and health and safety professionals—whether on commercial or residential job sites—construction workers face a variety of risks when using scaffolds and aerial platforms, including:

- Falls (from a height, into an opening, or on the same level).
- Collapse of the scaffold.
- Falling objects (tools, materials, scaffold components, etc.).
- Being struck by objects or tools.
- Electrical contact, and
- Other hazards



What we offer:

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The services encompass the following solutions for various industrial sectors, involving work on scaffolding and aerial platforms:

- Designing Risk Profiles by Activity
- Analyzing the Causes of Scaffolding-Related Incidents
- Proactive Tools for Planning, Organization, and Supervision
- Developing a Systems-Based Model for Preventing Serious or Fatal Injuries
- Designing Protocols to Prevent Serious or Fatal Injuries
- Training Competent Persons for Scaffolding and Aerial Work Platforms
- Developing Standards and Guidelines for Work Involving Scaffolding and Aerial Work Platforms
- Risk Assessment and Control (Inspection of Scaffolding and Aerial Work Platforms)
- Measuring and Analyzing Risks for High-Criticality Tasks Involving Scaffolding
- Designing an Audit Tool for Risk Profiling, and
- Other services as required by the client



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CONFINED SPACES

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According to NIOSH data, approximately 200 deaths occur annually due to work in confined spaces; 60 percent of those who died were would-be rescuers attempting to save a victim who had become unconscious. Such situations can arise in industrial, agricultural, and even domestic settings (for example, during the cleaning of septic tanks).

The Occupational Safety and Health Administration (OSHA) defines a confined space as any location in a workplace that is "…not necessarily designed for people, [but]… large enough for workers to enter and perform certain tasks." It has limited means of entry or exit. It is not designed for human occupancy over an extended period. It may be very large or quite small.

Despite the efforts of companies and health and safety professionals, workers face a variety of risks in confined spaces, including:

- **Atmospheric hazards (oxygen deficiency, explosive gases, toxic gases, silica, lead, asbestos)**
- **Chemical hazards (controlled products, chemical waste)**
- **Biological hazards (mold, bacteria, sewage)**
- **Physical hazards (noise, thermal, structural, mechanical, electrical, adjacent piping, entrapment)**

What we offer:

- Program development and consulting
- Risk identification and inventory
- Risk analysis and assessment
- Entry and rescue procedures
- Education and training
- Signs and labels
- Rescue services, and
- Other services as required by the client



PREVENTING THE FUTURE

TRANSFORMING STRATEGIC THINKING TO
IMPROVE SAFETY PERFORMANCE





MANTENIMIENTO Y CONTROL DE TRÁFICO

ASP
ACTIVE SAFE PROCESS

In 2022, 891 people died and 37,701 were injured in accidents within work zones involving construction, maintenance, and traffic control. Work zone accidents are defined as those occurring within the boundaries of a work zone (or while approaching or leaving one) resulting from activities, behaviors, or traffic control measures related to the movement of traffic through the limits of a work zone (whether temporary or permanent, and involving maintenance or traffic control).

Most work zone fatalities are caused by drivers of motor vehicles. The vehicles involved in fatal accidents include both those engaged in construction activities and those simply passing through a construction work zone. Work zone fatalities, categorized by type (from highest to lowest frequency), are as follows:

- **Motor vehicle drivers: 584 deaths (65%)**
- **Pedestrians: 136 deaths (15%)**
- **Motor vehicle passengers: 158 deaths (18%)**
- **Cyclists: 9 deaths (1%)**
- **Others and unknown: 4 deaths (1%)**

Our company has over 20 years of successful experience in implementing best practices for highway maintenance and traffic control. Our professionals hold certifications from the Mayagüez Technology Transfer Center and the American Traffic Safety Services Association (ATTSA).

What we offer:

- Design of a Road Safety System based on the MUTCD and ISO 39001
- Design and Implementation of Road Safety Programs and Plans
- Critical Risk Management in Road Safety
- Job Hazard Analysis (JHA) and Job Safety Analysis (JSA)
- Safety Training for Typical Roadway Sections
- Training for Safety and/or Production Supervisors
- Interpretation of Typical Road Safety Sections
- Road Accident Investigation
- Road Safety Audits
- Consulting for OSHA / PR-OSHA Inspection Compliance, and
- Other services as required by the client

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