

Center for Worker Safety and Industrial Hygiene Expertise

VISION: *The Center will help clients achieve workplaces free from recognized hazards, engage and empower employees, and work towards the goal of zero injuries, zero illnesses and zero environmental harm.*

Altarum Institute's 70-plus year history of saving lives and improving health, and a staff of 450 scientists, researchers, logisticians, statisticians, and health, safety, and environment (HSE) subject matter experts (SMEs) stand ready to support our clients' HSE needs.



We support the Occupational Safety Health Administration (OSHA) and employer's mission to assure safe and healthful working conditions for employees. Altarum's researchers and HSE experts recognize that despite efforts to protect workers in both the private and public sectors, more than 13 workers are killed daily, resulting in an alarming number (4,836) of workplace deaths in 2015.¹ In addition, nearly three million non-fatal workplace injuries and illnesses occur annually, causing extreme financial and resource burdens in the form of health impacts and reduced productivity. The economic costs of these occupational injuries and illnesses are enormous. The National Safety Council (NSC) estimates the cost of fatal and non-fatal work-related injuries and illnesses at \$250 billion (in 2007 dollars).²

¹ Census of Fatal Occupational Injuries Summary, 2015, <https://www.bls.gov/news.release/cfoi.nr0.htm>

² Adding inequality to injury: the costs of failing to protect workers on the JOB, National Safety Council. Injury Facts. 2014 edition, <https://www.dol.gov/osha/report/20150304-inequality.pdf>

Data indicates that deaths in American workplaces occur largely due to falls, being struck by objects, electrocutions, being caught-in/between objects, and vehicular accidents. The non-fatal injuries occur due to overexertion, slips/trips and falls, injuries from falling objects, hitting or being hit by objects, machine entanglement, repetitive motion trauma, and violence at work. Altarum's SMEs support our clients in each of these areas. We employ seasoned HSE experts with technical and programmatic skills and knowledge across OSHA 29 Code of Federal Regulations (CFR) worker safety regulations and commercial enterprise safety best practices. Our SMEs hold nationally recognized safety and health credentials, such as Certified Safety Professional (CSP), Certified Industrial Hygienist (CIH), Certified Ergonomics Assessment Specialist (CEAS), Certified Hazardous Materials Manager (CHMM), and are affiliated with the International Standards Organization's (ISO), Technical Advisory Group (TAG-283), for development of ISO standard 45001; *Occupational health and safety management systems*.

Altarum's HSE experts believe that organizations can prevent all incidents, provided the right strategies are employed to identify and mitigate workplace hazards. Our researchers and staff have expertise with organizational culture and systematic approaches to management of safety processes. Our research has shown that:

- ▲ Leadership is directly accountable for preventing incidents.
- ▲ People are the most critical element in a successful organization.
- ▲ HSE is to be managed the same as other critical business activities.
- ▲ HSE management systems should focus on continuous improvement.
- ▲ Recognition that safety and environmental protection are essential and required.
- ▲ All employees have a duty and responsibility to stop activities if they have safety concerns, or if they believe additional controls are needed to minimize HSE risks.

Altarum’s worker safety and industrial hygiene expertise includes:

- ▲ Research and analysis of workplace-related injury, illness, and fatality impacts and costs
- ▲ Worker safety, industrial hygiene, public health, and environmental program assessments and evaluations
- ▲ Multimedia safety, industrial hygiene, and environmental compliance inspections and audits (OSHA 29 CFR and EPA 40 CFR)
- ▲ Design and development of behavior based safety (BBS) models and organizational risk management (ORM)
- ▲ Development and delivery of worker safety training tailored across staff, supervisors, C-suite, and contractors
- ▲ Development and implementation of workplace safety management systems and programs



Industry Experience	Administrative Processes	Technical Program Areas	
Aerospace	Behavior-Based Safety	Asbestos Abatement	Hazardous Energy (LO-TO)
Automotive/Fleet	Compliance Assessments	Biosafety	Hot Work Program
Biomedical Engineering	Industrial Hygiene	Blood-borne Pathogens	Indoor Air Quality
Construction Safety	OSH Program Assessments	Confined Space Entry	Infectious Disease Control
Chemical	Personal Protective Equipment	Decontamination	Job Hazard Analysis
Diving	OSHA Regulations	Electrical Safety	Lead Remediation
Healthcare	Hazard Assessment	Ergonomics/Human Factors	Material Handling
Heavy Manufacturing	Prevention through Design	Excavation and Trenching	Polychlorinated Biphenyls
Light Manufacturing	Process Safety Management	Fall Protection	Pest Control Management
Maritime	Public Health	Hazard Communications	Radiation Safety
Oil and Gas	Remedial Investigations	Hazardous Materials Management	Respiratory Protection
Pharmaceutical	Safety Management Systems	HAZWOPER	Scaffolding and Aerial Lifts
Transportation	Training Management	Hearing Conservation	Thermal Extremes
	Workers’ Compensation	Hazard ID and Control	Welding and Cutting
			Safety Training

For further information about Altarum’s worker safety and health programs and services, please contact:

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