

Industrial Hygiene Service Solutions

CHUBB®



Occupational Health Hazards and Risks

Occupational health hazards, such as gases and vapors, may be lurking within your plant, warehouse, laboratory, or even office. These hazards are not always evident and may not present themselves until an employee has a reaction, there is an employee complaint, or it is uncovered during a regulatory inspection. Chemical hazards, including welding fumes, carbon monoxide, and silica dust, as well as other gases and vapors, may be invisible, odorless, and may not have an immediate noticeable harmful health effect.

Occupational health hazards can stem from numerous operations including, but not limited to: forging, machining, plating, coating, welding, soldering, cutting, grinding, mixing, blending, solvent use, rubber, plastic and electronic manufacturing, high noise areas, and indoor air quality within office environments.

Chubb's Industrial Hygiene Service Evaluations and Solutions

Chubb's Risk Consulting staff includes Board-Certified Industrial Hygienists (CIH) and educated and experienced Industrial Hygiene Specialists across the country who can assist in baseline and routine qualitative and quantitative health hazard evaluations. The occupational health hazard risk assessment provides a step-by-step method for anticipating, recognizing, evaluating, preventing, and controlling health hazards.

Our assessment process begins by categorizing your work environment gathering details including:

- Chemical & Physical Stressors
- Exposure & Clearance Time
- Exposure Frequency
- Exposure Duration
- Engineering Controls
- Administrative Controls
- Personal Protective Equipment (PPE)
- Available Occupational Exposure Limits
- Available Sampling & Analytical Methods

Chubb Risk Consulting



According to the National Institute for Occupational Safety & Health (NIOSH), about 22 million workers are exposed to hazardous noise each year.

Once these details are gathered, similar exposure groups are determined, and, as warranted, a sampling strategy is developed and agreed upon. Chubb Risk Consulting can then provide a comprehensive quantitative assessment.

Industrial hygiene quantitative assessment capabilities include sampling for numerous stressors, including but not limited to: noise, carbon monoxide, carbon dioxide, volatile organic compounds, solvents, lead, hexavalent chromium, silica, weld fume, isocyanates, and manganese. Chubb has assisted countless customers in implementing a combination of engineering, administrative, and Personal Protective Equipment (PPE) control methods to address overexposure scenarios, keep employees safe and healthy, and comply with regulations and industry best practices.

Occupational Hearing Loss (OHL) can stem from high noise levels. According to the National Institute for Occupational Safety & Health (NIOSH), about 22 million workers are exposed to hazardous noise each year. Chubb can perform sound level measurements including sound mapping, baseline, and routine monitoring. Chubb's Risk Consulting staff will work with you to implement a practical and cost-effective control strategy for hazardous noise.

In office environments, Chubb can address indoor air quality complaints by investigating contaminant sources, monitoring comfort parameters, and comparing to recognized standards such as Occupational Safety & Health Administration (OSHA), Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLV), American Society of Heating, and Refrigerating & Air Conditioning Engineers (ASHRAE).

A Legacy of Expertise

For more than seven decades, Chubb Risk Consulting has provided world-class risk consulting to help our customers eliminate or reduce insured loss potential. We have continually demonstrated our ability to be flexible to meet our customers' changing needs. Chubb's Risk Engineers analyze the customer's overall approach to risk management, review loss history, propose programs to help correct deficiencies, and work in tandem with customers to improve their risk management programs. Chubb's Risk Engineers are known for their business acumen, technical skills, ability to communicate effectively, and recommend solutions to mitigate exposures.

References

[OSHA PELs, Annotated Table Z-1](#)

[ACGIH TLVs](#)

[NIOSH REL](#)

[ASHRAE](#)

[CIH](#)

[NOISH Loss Prevention](#)

Learn More & Connect

For more information on protecting your business, contact your local risk engineer, visit the [Chubb Risk Consulting Library](#), call us at 888-792-2240, or check out [www.chubb.com/riskconsulting](#).