

Managing Industrial Hygiene Risks with Confidence

Healthy people, stronger operations



Know what your employees are exposed to at work, and know what to do about it.

Every workplace has an environment of its own. Air, noise, dust, and chemicals are part of daily operations, and most of the time they stay well within safe limits. Industrial hygiene is the discipline that confirms this with objective measurements rather than assumptions, so leaders know where they stand and where attention is needed.

Zurich Resilience Solutions' industrial hygienists visit your facility, observe how work is actually performed, identify chemical and physical hazards, and evaluate employee exposures encountered during a typical work shift. The result is a clear picture of your workplace, written in language your team can act on, with practical recommendations sized to your operation rather than to an ideal one.

Every engagement is built to answer key occupational exposure management questions such as:

What hazards are present?

Are employees at risk?

What can you do to reduce the risk?

Zurich Resilience Solutions Industrial Hygiene services helps you:

Step	What we do	What you get
 Identify	Understand where dust, fumes, chemicals, noise, and other workplace health concerns may exist.	A clear view of where to look first.
 Measure	Use calibrated monitoring equipment to measure what employees encounter during their work.	Real exposure data from real shifts, not estimates.
 Understand	Evaluate measured exposures against applicable requirements and recognized occupational health guidelines.	Results explained in context, with plain conclusions.
 Act	Use the findings to prioritize practical steps that protect employees and support compliance.	A ranked, workable set of recommendations.

Nearly 4 in 10 manufacturing workers are exposed to hazardous workplace noise.

Approximately

38% of U.S. manufacturing workers reported hazardous noise exposure within the past year. Effective exposure assessment and controls can help organizations identify elevated exposures and protect worker hearing.

Source: [CDC/NIOSH, Manufacturing Statistics, updated April 2026](#).

Why it matters

Occupational disease exposures problems rarely announce themselves. They develop quietly, over years, and then surface as hearing loss claims, respiratory illness, turnover, or a regulatory inspection that arrives without warning. Measuring exposure early costs far less than responding to any of those outcomes after the fact.

- Employees stay healthier, and confidence in the workplace grows.
- Compliance obligations are met with documentation that holds up to scrutiny.
- Spending on ventilation and protective equipment is directed where it actually reduces risk.
- Operations continue with fewer interruptions, claims, and unplanned costs.



Industrial hygiene capabilities

Zurich Resilience Solutions' industrial hygiene team helps clients identify, measure, and control workplace exposures. Services are delivered by experienced practitioners, supported by calibrated instrumentation and accredited laboratory analysis, and reported in a format built for action.

Focus area	What we assess
Chemical and particulate exposure	Welding fume assessments; CNC machining and metalworking fluid monitoring; solvents, acids and reactive compounds; dust exposure, including respirable crystalline silica.
Noise and physical agents	Occupational noise exposure monitoring; noise dosimetry and sound level surveys; hearing conservation program support.
Indoor environmental quality	Indoor air quality investigations; mold and moisture-related assessments; odor, comfort and ventilation complaint response.
Ventilation and controls	Ventilation evaluations, including local exhaust system performance; exposure control evaluations and effectiveness verification; respiratory hazard assessments.
Programs and risk assessment	Occupational health risk assessments; exposure assessment strategy and written program review (e.g. Confined Space, Respiratory Protection Program, etc.); communication of results to management and employees.
Other specialized workplace health assessments	Occupational disease and exposure investigations, heat stress, ergonomics, ionizing and non-ionizing radiation, and other specialized workplace health concerns.

How we deliver

- Site visits scheduled around your production reality, not around ours.
- Sampling plans built on recognized OSHA and NIOSH methods.
- Clear reporting with findings, interpretation, and prioritized recommendations.
- Follow-up support as controls are implemented and verified.

Working with Zurich Resilience Solutions

Industrial hygiene at Zurich Resilience Solutions is part of a broader risk engineering relationship. Our Certified Industrial Hygienists (CIH) and specialists bring field experience across manufacturing, fabrication, food processing, construction, and public entities, and they work alongside your safety and operations teams rather than around them. You get measurement capability when you need it and a consistent point of contact who already understands your business.

Healthy employees, sound data, and fewer surprises. That is what a well-run industrial hygiene program delivers, and it is what we are here to help you build.



To discuss an industrial hygiene assessment for your operation, contact your Zurich Resilience Solutions Risk Engineering consultant.

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