

Risk engineering services for the manufacturing industry

Zurich Services Corporation recognizes that risk engineering services have a direct impact on your business—your profitability, your property and other assets, the health and safety of your employees and customers, and much more. Because our services permeate so many critical aspects of your business, we've taken great care to ensure they're focused on results. The most important action we've taken to get those results is to hire experienced professionals from the manufacturing industry to work with you. Our manufacturing industry risk engineering consultants have first-hand experience working from within your industry, giving them a deeper understanding of your risks and what can be done to address them. In addition to our manufacturing industry experience are our four key building blocks of service:

- **Approach**, which is to act as both student and teacher, learning about your individual organization in order to choose the right solutions and then sharing our risk management knowledge to help you become more self-sufficient in controlling your risks
- **Specialist risk engineering consultants**, who are highly experienced and trained technical professionals, dedicated to the industries they serve and, in many cases, hired from within your industry
- **Information**, which reflects our constant drive to find ways to simplify and reduce the cost of managing risk for our customers through automation
- **Network**, which spans 30 countries and includes over 1,000 risk professionals, giving you access to the largest network of technical risk management in the world, so we're ready to go wherever you grow

Fire loss prevention assessment and highly protected risk (HPR) assessments

Our fire loss prevention risk assessment evaluates whether your current fire protection and prevention methods are appropriate and looks for opportunities to make practical improvements. We also measure your existing fire protection

equipment against national standards and provide a list of approved products and suppliers who can repair or replace fire protection equipment or make other necessary fire protection-related building upgrades or repairs for you.

Our HPR assessment program evaluates the adequacy and reliability of the physical protection of a building and its occupancy. During the assessment we review with you how to manage the program, such as emergency response, inspection and testing, maintaining fire equipment and contingency planning.

Equipment testing program – jurisdictional boiler and pressure vessel inspections

Our equipment-testing programs help you stay in compliance with jurisdictional inspection requirements while helping to prevent costly equipment breakdowns and other types of potential losses. Our equipment testing program includes the following elements:

- Infrared thermographic evaluations detect electrical problems before a breakdown occurs. We can perform this widely used engineering technique while your electrical equipment is in operation so that service is not interrupted.
- Vibration analysis can detect problems that could lead to failure of critical plant equipment. This allows you to repair equipment before any breakdown of critical plant equipment, preventing costly extended plant outages.
- Lube oil analysis helps us detect progressive deterioration of the lubricated components of a machine, such as bearings. By examining particles contained in the lubricant, we can determine if there is an abnormal wear-related problem. If we find problems, we can recommend corrective actions to help prevent the failure of a motor or cable that could cause a potential extended plant outage.
- Insulation resistance testing and corrective action to prevent extended plant outages.

Ergonomics

Our Certified Industrial Ergonomists (CIE) offer a comprehensive evaluation of the risk factors associated with your workstations in a manufacturing, warehousing or office environment. After the evaluation, they offer recommendations to correct and control those risk factors. The results from these recommendations can significantly improve the safety of a workplace, reduce potential accident costs and increase productivity.

Industrial hygiene services

Our industrial hygiene services help you comply with regulatory requirements and maintain a healthful work environment for your employees. Our experienced Certified Industrial Hygienists (CIHs) can help you

- Determine whether potentially toxic materials are present
- Conduct on-site assessments to measure employee exposure to chemicals, particulates and noise
- Measure heat stress in specific areas and recommend work/rest regimens using globally recognized guidelines
- Help assess the performance of ventilation systems
- Certify grade D breathing air for supplied air respirators
- Help establish current programs for respiratory protection, silica, hazard communication and hearing conservation

Slip, trip and fall evaluations

Our slip, trip and fall evaluations span from providing self-assessment tools to in-depth site evaluations of the slip, trip and fall exposures you face in the manufacturing industry. Our assessment model identifies the most important factors affecting the potential for slips, trips and falls. After helping you identify these critical risk factors, we focus on practical and cost-

effective improvements. Our experience in the manufacturing industry helps us recognize the problems unique to your setting that can lead to slip, trip and fall accidents, and our solutions have led to measurable results.

Absence management

Zurich's absence management program is a customizable, end-to-end process with pre-injury, injury management and return-to-work solutions designed to help you take control of employee absence and disability costs. Typical program services include developing a physician network, creating transitional work assignments and job descriptions and developing a return to work program.

Six Sigma and 5S lean manufacturing

Our Six Sigma and 5S Lean manufacturing services teach you how to incorporate the principles and techniques of these programs into your business culture. We provide project consultations and regional workshops or, upon request, we can conduct a workshop at your facility. Our hands-on curriculum combines lectures, videos and small working groups to create an optimal environment for learning how to apply the Six Sigma process and 5S Lean principles into your operations.

Fleet services

Zurich Services Corporation has a worldwide network of fleet specialists with roots deep in the transportation industry. We offer our manufacturing industry customers a wide assortment of tools and training to help you in critical areas of controlling your fleet exposure, such as tools to identify poor drivers and the subsequent training to help all drivers improve their skills.

For more information about Zurich Services Corporation's risk engineering services for the manufacturing industry, contact your Zurich representative or visit www.risk-engineering.com.

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Zurich Services Corporation
Risk Engineering



ISO 9001:2000

Quality-Assured Solutions Provider

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