Artificial Intelligence (AI) Based Industrial Ergonomic Assessments

Chubb is committed to helping clients protect their employees from musculoskeletal injuries in the workplace. These soft tissue injuries include back injuries, repetitive strain disorders, and tendonitis. Chubb Risk Engineers can offer customers both on-site and remote ergonomic assessments using an AI-based application to identify tasks where overexertion injuries could occur.

The process entails uploading a smartphone video of a task performed by the employee to the AI-based application. The app then completes a comprehensive risk analysis of the job. Customers will then receive a customized report that identifies postures that may increase the potential for an injury. The report also includes possible solutions to help mitigate the associated risk, reduce injury, and enhance worker safety. The Chubb Risk Engineer can record videos on-site, or they can be sent from clients to Chubb for analysis.

The AI-based application overlays a color-coded skeleton on the employee to visually highlight risky postures. The application also provides risk scores for each part of the body. Further, postures are visualized in charts for more in-depth examinations. As a result of this analysis, employers can modify tasks to reduce the likelihood of an employee sustaining a musculoskeletal injury while also managing worker compensation costs.

This ergonomic analysis can also be used to develop a job rotation program by identifying both high and low-risk tasks. This approach ensures employees are not continuously subjected to jobs where there is a high likelihood of injury.

This video highlights our ergonomic assessment process and emphasizes Chubb Risk Consulting's expertise in ergonomics, as demonstrated by the tailored solutions our risk engineers recommend to mitigate risk factors and prevent employee injuries.

Learn More & Connect

For more information on AI-Based Ergonomic Assessments, contact your local risk engineer, visit the Chubb Risk Consulting Library, or check out www.chubb.com/riskconsulting.