

Oxford Automotive, Masury

Intervention Key Words: Tilt Stands, Grip Mats, Tilt Tables

Industry: Manufacturing

Risk Factor(s): Repetitive motion, Awkward Posture- Back deviations, Shoulder deviations

Situation:

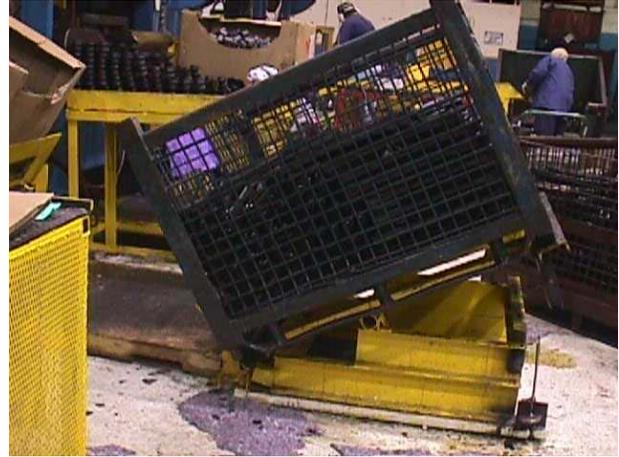
Oxford Automotive is a Tier I Automotive Supplier that produces metal stampings and assemblies of suspension components for light trucks. The process involves a number of steps utilizing a series of presses and stampers. At the end of each press line is a packer that places the parts into a metal basket. These baskets are then either sent out for painting or are sent to other workstations to be welded. Repetitive bending into metal baskets, reaching from the waist, working above shoulder height and static postures are some of the Cumulative Trauma Disorder (CTD) risk factors involved with the task.



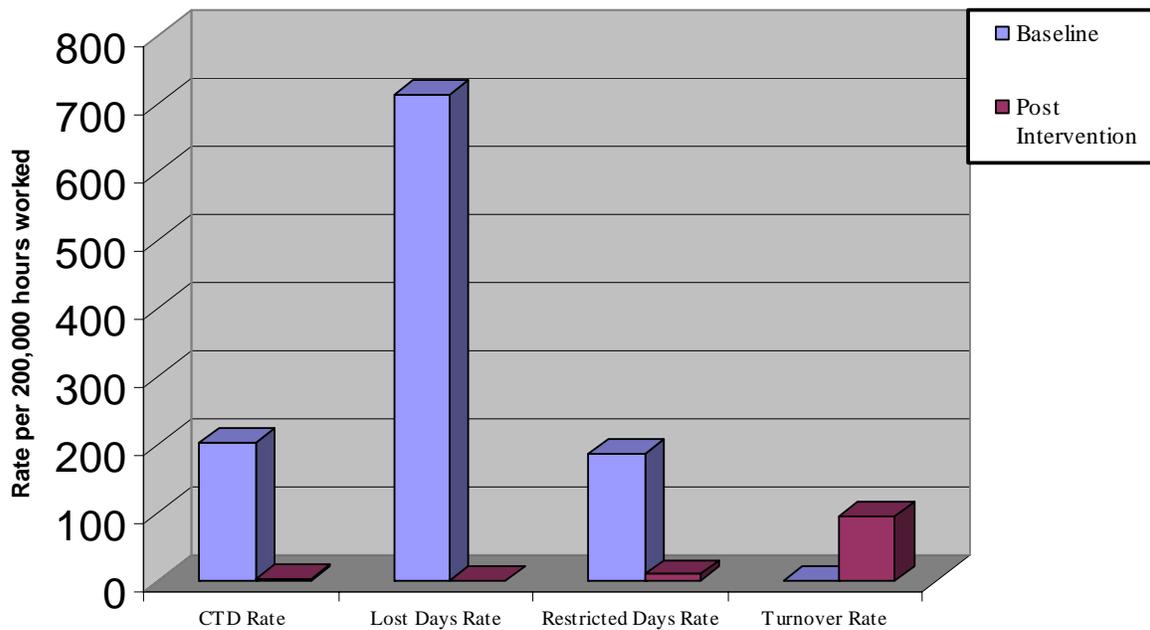
Workers demonstrate CTD risk factors

Solution:

In order to address their CTD risk issues, Oxford Automotive purchased 20 tilt tables to distribute throughout the facility. The new tables decrease the bending and reaching at each press line by tilting the metal baskets to increase accessibility. They are also height adjustable to accommodate various sized workers. In order to reduce physical impact on the human body, Oxford also purchased anti-fatigue matting to be placed in work areas. The matting aides in reducing stress due to continuous standing at workstations all day. Total cost for the intervention was \$23,225. Oxford Automotive received \$18,389 in assistance from SafetyGrant\$.



Results:



- CTD rate at Oxford Automotive was at 202 (per 200,000 hours worked) the year prior to the intervention and decreased to 2.2 in 24 months following. This equates to a 99% improvement.
- Lost Days rate decreased 100% from a value of 715 in the same time period.
- Restricted Days rate decreased from 186.5 to 8.9, a 95% improvement.
- An increase was observed in Employee Turnover rate which may not be attributed to the intervention.
- When averaged over 2 tasks, CTD Risk Factor scored decreased 30% following the intervention