

FIGURE 1

Ergonomics solution impact calculator

This ergonomics solution impact calculator provides a simple method for quantifying the costs and potential impact on operations for various options. Based on the data provided, the spreadsheet calculates the return-on-investment and payback period for various ergonomics solutions, allowing ergonomics teams and management to compare the data side by side.

General data		Solution description: Install a self-leveling lift table	
# of employees on job	2		
Hourly labor rate \$22	\$22		
Annual WC costs for job	\$15,000		
Solution implementation cost		Productivity impact estimate	
Cost factors	Costs	Level of increase	Mark 'x'
Equipment purchase	\$1,400	High - Speeds up process	
Installation costs	\$100	Medium - Reduces wasted motion	x
Training costs	\$50	Low - Improves comfort/reduces fatigue	
Recurring costs		Solution effectiveness estimate	
Other costs		Type of Solution	Mark 'x'
Total cost of solution	\$1,550	Eliminates the exposure	
Solution cost savings		Reduces the level of exposure	x
WC cost auto calculation	\$6,000	Reduces the time of exposure	
Productivity calculation	\$4,400	Relies on behavior changes or training	
Product returns & rework		Comments:	
Absenteeism/employee turnover			
Other factors			
Total savings from solution			
Comparative valuation of solution			
First year return-on-investment	5.71	(projected savings - implementation cost)/implementation cost = ROI	
Payback period (years)	0.15	(implementation cost/projected savings) x 1 year =payback period	