Motion Is Money

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CNA  Risk Control
The leading cause of strains and sprains is manual material handling.
Performance - M & M

Workers Compensation –

Struck By

Manual Material Handling

Slip & Fall

% of Total Claims

0% 10% 20% 30%
Shown as a Percentage of Total Claim Dollars

- MMH: 22%
- Falls from Elev.: 21%
- Struck By: 16%
• By 2015, 24% of all workers will be considered “aging.”

• The early half of all workers will be considered “aging.”

• ...
Performance

Age - 45-64 Yrs Old

- 1980: 29.6%
- 2000: 33.9%
- 2020: 34.7%
n example of how “light”

- when you add in the 105 pounds of the average human upper torso...

...you
Performance

- 1,400 lbs.
- 130 lbs.
- 10 lbs.

CNA

Focus On Performance
• re —
Applying the Motion is Money Concept can Improve:

- R B I T
- D R R
- C R W B M
- R E Q R E
- R H M D A Y T B M
- C H C N A T C 2005 C C C A
-taging -
-ork method echniques -
-rocess lows -
• here are risk factors involved and we don’t
• you have to question “why do we do it this way”.

•
• Minimum of 45 minutes to an hour —
- Use the efficiency tools to track the baseline data. e'll
Use these worksheets to identify bending and walking opportunities.

**Worksheet #1**

**Bending:**

Number of bends performed in 1 hour = 
Number of workdays per year =

\[
\text{\# bends x 3 seconds} = \text{\# seconds}
\]
\[
\text{\# seconds x 8 hours} = \text{\# seconds/60 minutes}
\]
\[
= \text{\# labor minutes}
\]
\[
\text{\# labor minutes \times \# days} = \text{\# labor minutes}
\]
\[
/60 \text{ minutes} = \text{\# labor hours}
\]

**Total number of employees on the job** =

\[
\text{\# hours \times \# employees} = \text{\# labor hours per year}
\]

**Gang rate**

\[
\text{\# labor hours \times \$\text{\# gang rate}} = \$\text{\# cost of bending}
\]

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**Example — Walking Observation on a Typical Job**

**Walking:**

Number of minutes walking = 10
Number of workdays per year = 250

\[
10 \text{ labor minutes} \times 250 \text{ workdays}
\]
\[
= 2,500 \text{ minutes/60}
\]
\[
= 42 \text{ labor hours}
\]

**Total number of employees on the job** = 100

\[
42 \text{ labor hours} \times 100 \text{ employees}
\]
\[
= 4,200 \text{ labor hours per year}
\]

**Gang rate**

\[
4,200 \text{ labor hours} \times \$40 \text{ gang rate}
\]
\[
= \$168,000 \text{ cost of walking}
\]
Typical Load

Load with Prefabrication

Source: ELECTRI International