

GET IN THE SAFETY ZONE

Evaluating the TOP 6 ERGONOMIC RISKS

Our Presentation Will Begin Soon!





GET IN THE SAFETY ZONE

Evaluating the TOP 6 ERGONOMIC RISKS

ICW Group Risk Management Services







TODAY'S TOPICS

Impacts & Benefits
6 Tips to Identify Risks
The "Safety Zone " Approach
Practical Solutions!
Helpful Online Resources



Cumulative Trauma Disorders Defined



Cumulative trauma disorders (CTDs) are also known as:

- ✓ Repetitive strain injuries
- ✓ Repetitive motion disorders (RMDs)
- ✓ Overuse syndrome and work-related musculoskeletal disorders.

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FINANCIAL IMPACT

Electrical Contact Occupational Disease **Environment Exposure** Workplace Violence Caught In, Under, Between **Vehicle Accident** Falls - Elevation Struck By/Against **Cumulative Trauma** Fall - Same Level **Material Handling** \$20 \$20 \$18 **MILLIONS** \$246

ICW customers.... 5-Year Impact

- \$246M in claims
- 15% of all claim costs
- 9% of claim count (9,000 claims)
- 27K average cost per claim



FINANCIAL IMPACT - COUNTRY

- Direct costs: \$15 \$20B yearly
- Work comp cost: \$1 of every \$3 attributed to Cumulative Trauma



WORKER IMPACT - INJURIES

- Carpal tunnel syndrome
- Tendinitis
- Rotator cuff injuries (shoulder)
- Epicondylitis (elbow)
- Trigger finger
- Muscle and low back strains



Benefits of an Ergonomics Program

- Enhances safety culture
- Improves employee engagement
- Reduces injury costs
- Improves productivity and product quality



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6 Tips to Stay in the Safety Zone!



Watch out for risk factors:

- 1. Awkward Postures
- 2. High Hand Force
- 3. Highly Repetitive Motion
- 4. Repeated Impact
- 5. Heavy Awkward Lifting
- 6. High Hand-Arm Vibration



Stay in the Safety Zone!



Focus on the risk exposures

- Observe posture & movements
- Identify exposures
- Recommend practical solutions
- Employees go home safe!

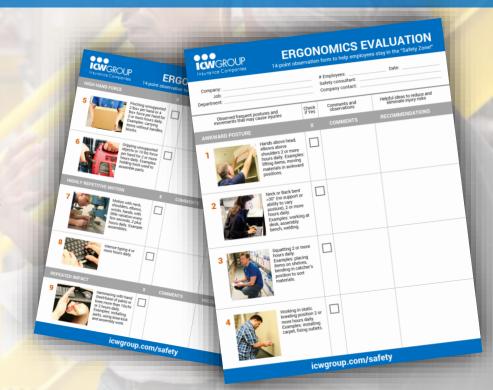


The Safety Zone Observation Form



Ergonomics Evaluation Tool

- 14-point guide
- Focuses on six risk exposures
- Photo for each risk exposure
- Good documentation tool



Based on Washington State model

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1) Awkward Postures

- Work performed with:
 - Hands above head
 - Elbows above shoulders
 - Over 2 hours daily

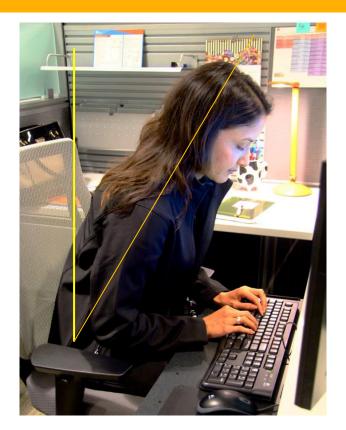






Awkward Postures

- Neck/head in forward posture
- No lumbar support
- Static posture
 - Over 2 hours daily
 - Ears in front of shoulders
 - Shoulders in front of hips
 - Shoulders in front of toes







Awkward Postures

- Jobs requiring squatting over 2 hours daily
- Static kneeling over 2 hours daily









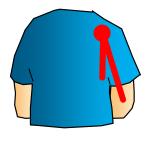
Reduce risk of awkward postures

- Office: Eliminate forward head/neck posture.
- Move frequently used desk items within reach zone (17-24 inches)
- Use wireless headsets for phones
- Align center of torso with computer monitors

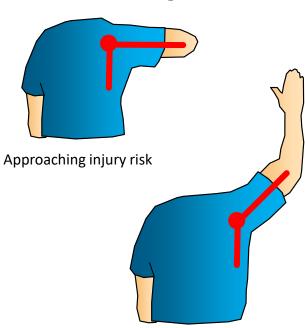




Reduce risk of awkward postures



Good!



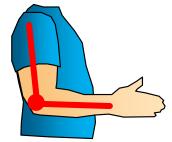
Lifting over head increases risk of shoulder injury.

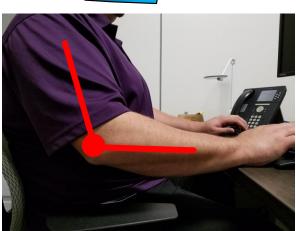


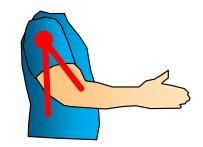




Reduce the risk of awkward postures

















2) High Hand Force

- Pinching
 - Unsupported object, 2 pounds or more per hand
 - 2 hours or more daily

- Gripping
 - Unsupported objects, 10 pounds or more, per hand
 - 2 hours and more daily



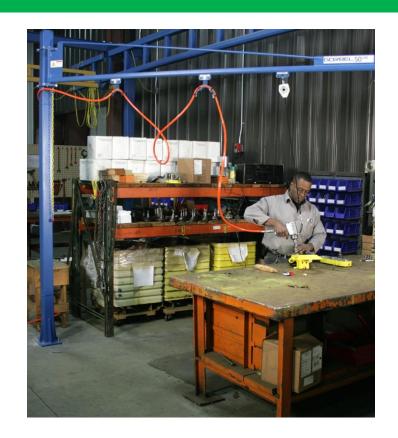






Reducing High Hand Force

- Use light-weight tools
- Improve coupling
- Increase leverage
- Suspend tool from overhead
- Automate process







3) Highly Repetitive Motion

- Repeating same motion with the neck, shoulders, elbows, wrists, or hands
- Occurs every few seconds, with little or no variation
- Intensive keying (4 + hours daily)
- Wrist posture







Reduce & Break Up Repetition

- Rotate jobs every 2 hours
- Change body posture
- Raise work to prevent bending
- Provide options to change up body position







4) Repeated Impact

- Using hand (heel/base of palm) or knee as hammer to strike objects
- 10 times or more per hour, 2 hours or more daily







Reducing Impact Injuries

- Purchase correct tools
- Observe
- Educate
- Correct







5) Awkward Heavy Lifting

- Lifting 75 pounds or more, 1 x daily.
- Lifting 55 pounds or more, 10 x daily.









Avoid Injury from Awkward Lifting

- Reduce weight lifted
- Use smaller storage containers
- Store heavier items between waist and chest height
- Use mechanical aids
- Keep loads close to body





6) Moderate-High Hand-Arm Vibration

- Using high-vibration tools 30 minutes or more daily
 - Impact wrenches
 - Jack hammers
 - Drills
 - Chain saws
 - Percussive tools

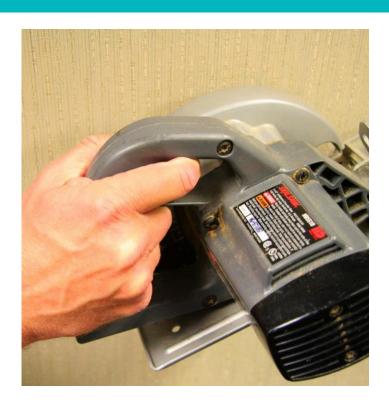






Reduce Vibration Impact Injuries

- Pad tool handles
- Anti-vibration gloves
- Select tools fitting workers' grip
- Maintain equipment
- Low-vibration tools



TOPICS

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ERGONOMICS

Watch for the following to prevent injuries

Learn more at icwgroup.com/safety IT'S YOUR BODY AT WORK Keep it in the Zone!

Insurance Companies

Solutions to Reduce Your Risk Exposure!



- 1. Correct awkward postures
- 2. Reduce high-hand force
- 3. Break up repetitive movements
- 4. Provide correct tools to reduce impact injuries
- 5. Avoid injury from awkward lifting
- 6. Reduce vibration impacts



Stay in the Safety Zone



- Observation
- Evaluation
- Education
- Solutions



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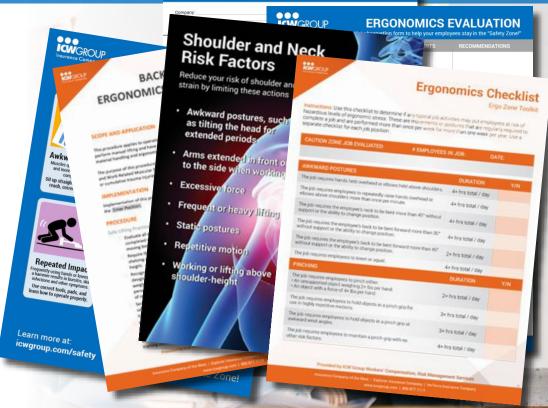


ICW Group Policyholder Website!



icwgroup.com/safety

- Safety and Risk Management area!
- Safety Webinars
- Get in the Safety Zone, Solving **Ergonomic Risks**



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