

OSC 12
Ohio Safety Congress & Expo

WELL AT HOME. SAFE AT WORK.

Session 445
Ergonomic Issues and Review of Safety Grant Results for Public Employers

Julie Reynolds

2:30 to 3:30 p.m. Wednesday, March 28

Ohio Bureau of Workers' Compensation

What is Ergonomics?



OSC 12
Ohio Safety Congress & Expo

Acute Versus Cumulative Disorders

Acute

- o Result from a one time event

Cumulative

- o Result from repeated wear and tear; however, a specific event may have been "the last straw" upon a previously weakened system and, thus, given the appearance that the problem is acute rather than chronic. {Stephen Konz. "Work Design; Industrial Ergonomics", Third edition. 1990}

OSC 12
Ohio Safety Congress & Expo

Average Cost for Lost-Time Claim - 2008

Carpal tunnel	\$26,123
Cervical disc displacement	\$88,192
Rotator cuff	\$42,771
Wrist sprain/strain	\$16,996

OSC 12
Ohio Safety Congress & Expo

Control Strategies

Engineering controls

- Workstation design
- Tool design
- Process modification
- Mechanical assist

Administrative controls

- Training
- Job rotation
- Pacing
- Policy
- Job enlargement

Band-aid solutions?

- Splints
- Braces

OSC 12
Ohio Safety Congress & Expo

SafetyGRANTS

OSC 12
Ohio Safety Congress & Expo

Program Information

- Two-to-one matching funds up to \$40,000
- Used to purchase equipment to substantially reduce or eliminate injuries and illnesses associated with a particular task or operation
- Available to public and state-fund private employers

OSC 12
Ohio Safety, Compliance & Labor

Program Information

- No claim required to apply
- Cannot reimburse for something already purchased
- Not eligible to apply if employer received \$40,000 in a previous phase

OSC 12
Ohio Safety, Compliance & Labor

Program Information

Must go through the application process to be approved

Must be willing to allow a Division of Safety & Hygiene consultant to conduct a comprehensive safety assessment

OSC 12
Ohio Safety, Compliance & Labor

Program Information

Must be willing to electronically submit injury data for two years after the intervention is in place

Must be willing to provide a case study one year after intervention is in place, including cost benefit information as well as pictures and video. BWC will share information from this case study so others can learn from it.

OSC 12
Ohio Safety, Compliance & Labor

Unapproved Interventions

- Rented or leased equipment
- Personal protective equipment
- Back belts
- Wrist splints
- Safe-lifting training
- Routine office interventions
- Interventions used solely for rehabilitative purposes
- Routine equipment replacement
- Equipment related to capital improvement projects already under way

OSC 12
Ohio Safety, Compliance & Labor

Moratorium List

Because of the large number of requests we received for particular intervention items, and in keeping within the scope of the SafetyGRANTS research project, there are interventions that BWC will no longer consider for SafetyGRANTS funding.

See the Web site for the most up-to-date list:

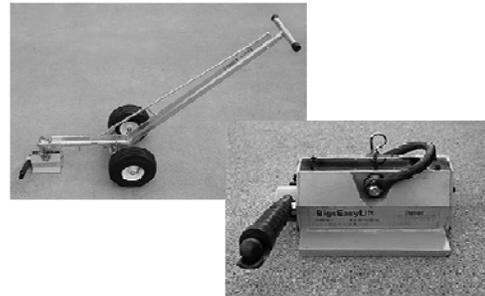
<http://www.ohiobwc.com/employer/programs/safety/EmpGrants.asp>

OSC 12
Ohio Safety, Compliance & Labor

Potential Safety Grant Interventions

- Manhole cover lifting devices
- Sign post driving equipment
- Bariatric EMS cots (800+ lb. capacity)
- Fire/EMS lift assist devices
- Tire handling/storage retrieval systems.
- Lift assist devices for garbage collection
- Valve insertion equipment
- Water pipe cutting saws
- Power door openers for buses
- Meter reading assist devices
- Lift assist devices for water/waste water treatment facilities
- Hydro-Excavator

OSC 12
Ohio Safety Council & Local



OSC 12
Ohio Safety Council & Local

Bariatric Needs



Must be 800+ pound capacity

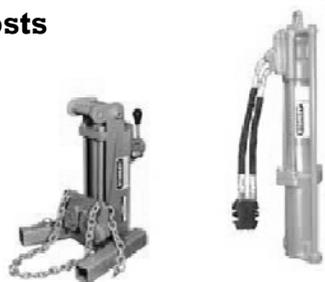
OSC 12
Ohio Safety Council & Local

Storage Issues



OSC 12
Ohio Safety Council & Local

Sign Posts



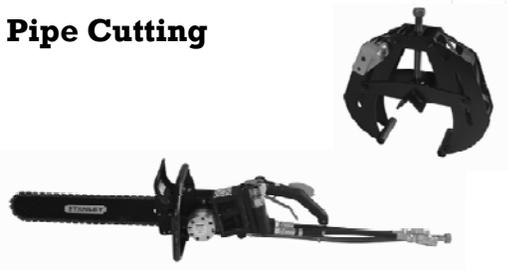
OSC 12
Ohio Safety Council & Local

Mini Post Pounder



OSC 12
Ohio Safety Council & Local

Pipe Cutting



OSC 12
Ohio Safety Council & Labor

Trench Work



OSC 12
Ohio Safety Council & Labor

Ergonomic Best Practices for Public Employers

One of the primary goals of the SafetyGrant\$ Program is to develop best practices from the case studies.

For further best practices, see all of the best practices documents on the ohiobwc.com SafetyGrant\$ Web page.

OSC 12
Ohio Safety Council & Labor

Case Study – Champaign County Nursing Home

Facility awarded \$40,000 for the purchase of an Arjo patient lift and electric beds. The total cost of the project was \$59,000 (BWC contribution was \$40,000).

CTD rates fell from **16 per 200,000 hours worked to 0** in the seven months since the intervention.

Lost-day rate fell from of **289 per 200,000 hours worked to 0** lost days in the seven months since the intervention.

OSC 12
Ohio Safety Council & Labor

Case Study – City of Mansfield

The city purchased equipment to reduce risk CTD risk factors such as cranes, low-vibration jack hammers, lift gates for trucks and winches. The total cost was \$58,024.

After six months, the CTD injury rate dropped from **49.8 CTDs per 200,000 hrs. to 0**

Jobs that often required two or more people due to heavy lifting now only take one person, freeing workers to perform other tasks.

OSC 12
Ohio Safety Council & Labor

Case Study – Crestwood Local School District, Mantua

The district purchased motorized bleachers at the high school and middle school costing \$41,080 (BWC contribution was \$23,864).

Risk factor score fell from **29 before the intervention to 0 afterward.**

The employer maintained **zero CTDs, lost days and restricted days.**

OSC 12
Ohio Safety Council & Labor

The Application

Find the application on the Safety Grants Web page at ohiobwc.com.



OSC 12

Ohio Safety Council & Expo

Safety Grants

Step 1 – Contact your BWC office and have a consultant help you determine your eligibility.

Step 2 – Identify the product/equipment that you want to apply for with the grant.

Step 3 - Begin completing the application.

OSC 12

Ohio Safety Council & Expo

Safety Grants

Step 4 – Have the BWC consultant review and sign the completed application.

Step 5 – Mail the application with all pictures, quotes, and supporting documentation to the address on the application.

Step 6 – The BWC consultants will also file their documentation.

OSC 12

Ohio Safety Council & Expo

Safety Grants continued

Step 7 – The Safety Grant Committee will review the application.

- If it approves the application, you will get a letter.
- If it denies the application, you will receive a letter stating the reasons why. At this point, you can simply address the committee's concerns and re-apply.

Step 8 – A check for the approved amount will arrive shortly after the letter.

- At this point, but not before, you may order or purchase the equipment.

OSC 12

Ohio Safety Council & Expo

Safety Grants continued

Step 9 – Implement the intervention.

Step 10 – Return the receipts to show proof of purchase.

Step 11 – Report your statistics quarterly for the next two years and complete the One-Year Case Study, per BWC template and Return-On-Investment worksheet.

OSC 12

Ohio Safety Council & Expo

Any Questions?

OSC 12

Ohio Safety Council & Expo