

Available Training

BCMSA in conjunction with WorkSMART Ergonomics Ltd. currently offers a 4 hour worker and 8 hour supervisory workshop on how to reduce Musculoskeletal Disorders in municipalities





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MSI vs MSD

- Musculoskeletal Disorder represent injuries or conditions that develop over repeated exposure to workplace hazards (cumulative) or through overexertion (acute)
- Musculoskeletal Injury includes all disorders plus traumatic injuries such as those attributed to slips/trips/falls, crushes, lacerations, struck-bys, etc.

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How Bad Is It?

- According to 2007-2011 WorkSafe Data for BC Municipalities, MSDs are responsible for,
 - An average of 674 claims per year (37% of all claims)
 - ❖43% of MSDs are over 28 days lost time

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The Economics of Ergonomics

Average cost per claim in BC based on 2007-2011 WCB direct costs

Average Direct Cost of Injury	Indirect Costs		Total Cost Per Injury
\$6700 (Back Injury)	х	4 = \$26,800	\$33,500
		7 = \$46,900	\$53,600
\$9000 (Other Strains)	Х	4 = \$36,000	\$45,000
		7 = \$63,000	\$72,000
\$14,000 (Tendinitis)	Х	4 = \$70,000	\$84,000
		7 = \$112000	\$126,000

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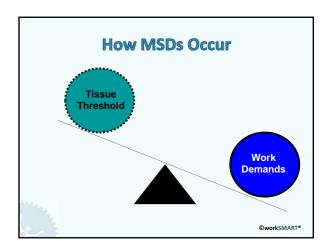
Defining Ergonomics

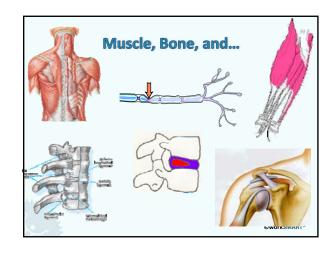
- The science of designing or adjusting work by fitting the job to the worker, not the worker to the job
- Considers our physical, physiological, biomechanical, and psychological capabilities
- Optimizes the effectiveness and productivity of work systems

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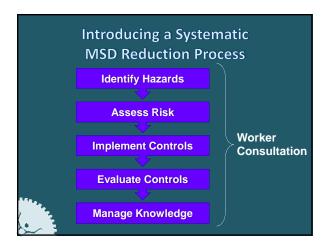
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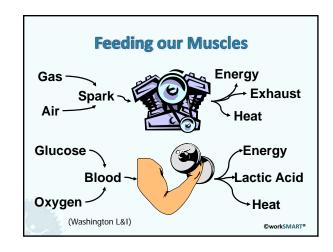
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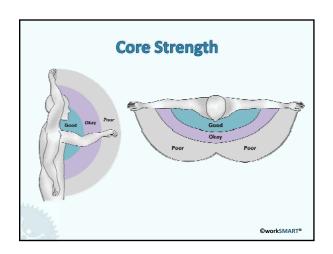




The Role of Fatigue Precursor to the development of an injury A result of inadequate blood supply to transport oxygen to the muscle tissue during work If we can control fatigue, we can control most MSDs



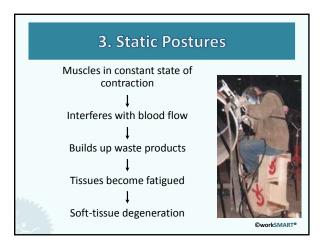


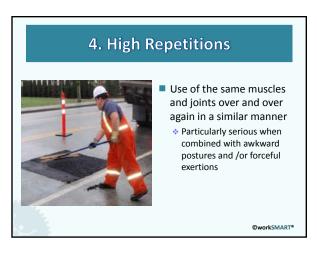


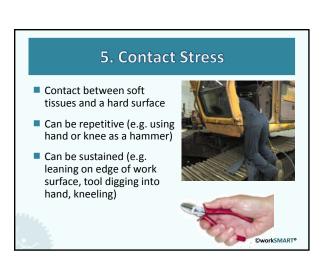
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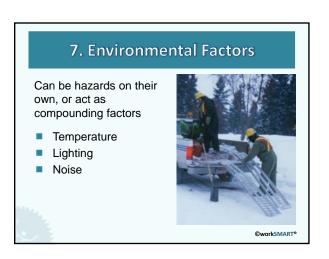






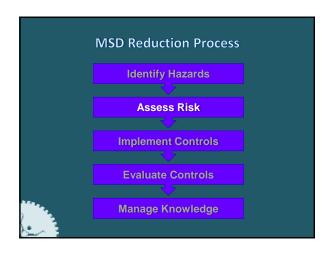


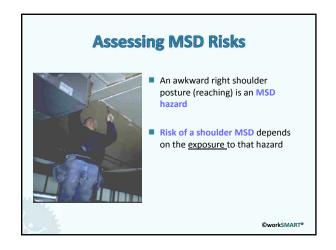


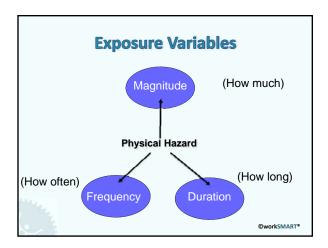


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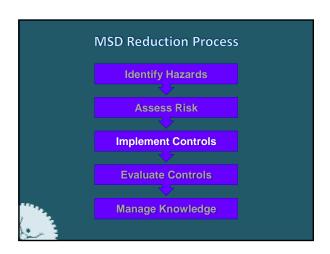


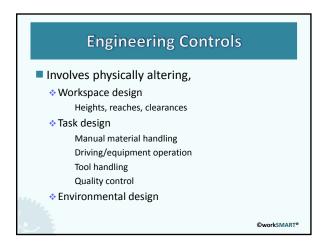






Assessment Tools You Will Learn WorkSMART MSD Risk Checklist Hand Tool Vibration Database Online Manual Handling Calculators WorkSafe BC Lift /Lower Calculator WorkSafe BC Push/Pull / Carry Calculator Liberty Mutual Material Handling Tables





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Administrative Controls

- Typical administrative controls include,
 - Work Scheduling
 - Work Pace
 - Work Practices
 - Worker Training

Rely on behavioral change;

less effective and often difficult to control

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Worker Training

- More than just classroom training
 - Reinforcement of training
 - Competency evaluations
 - Job shadowing, mentoring of new hires
 - Ongoing awareness (posters, newsletters,
- Lifting is a skill and not everyone has the skills!

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What you will learn

- Examples of engineering, administrative, and PPE controls specific to MSD reduction
- Biomechanical training regarding
 - Individual and team lifting, lowering, carrying techniques
 - When to push and when to pull
 - The truth about twisting
 - Safe side bending
 - Shoveling guidelines

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You will also learn how to,

- Use WorkSMART's MSD Control Strategies in conjunction with the MSD Risk Checklist
- Perform proper brainstorming with workers
- Identify whether a control is considered high impact or low impact
- Identify the cost-benefit of individual controls before resources are spent (or wasted)

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Thank you!

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