







Issues Facing Employers Today - Age

Aging Workforce

- Stats Canada 2011
 - Between 2001-2009 55 and over grew from 10% to 17%
 - By 2021 1 in 4 in labour force projected to be 55 or over (25%) [Stats Canada (2011)]

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Issues Facing Employers Today - Age

Ageing Workforce [CCOHS]

- Older Workers Are Injured Less Frequently, But Have Higher Severity.
- More back injuries vs. eye and hand injuries
- Increase MSDs
- Older Workers Have A Higher Number of Co-Morbidity Conditions (Heart Disease, Diabetes, Pulmonary, etc.)



Issues Facing Employers - Age

- Ageing workforce
 - Physical Changes
 - Changes start around 40-50 yo
 - 15-20% ↓in strength between 20-60 yo older workers are working closer to their max
 - \downarrow ROM problem if they need to make unusual movements
 - 40% \downarrow functional breathing capacity between 30-65 yo
 - ↓ dynamic balance
 - Less sleep regulation problems with shift workers
 - Vision and auditory functions decrease







Identifying Program Necessity



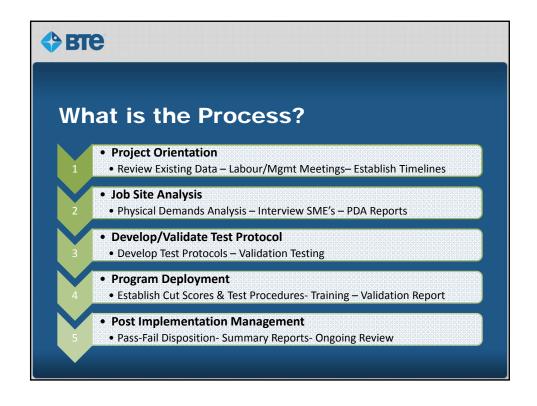
- Data Trends
 - Significant MSD injuries
 - Short Tenure Employees Getting Hurt
 - Older Workers Being Hired/General Worker conditioning
 - Frequent Repeaters
 - Costs/Durations of Claims (WC and Disability)

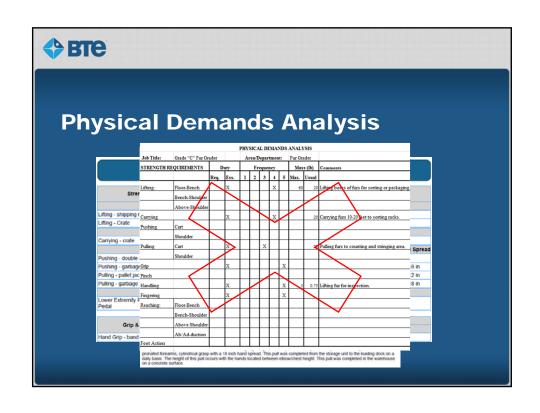


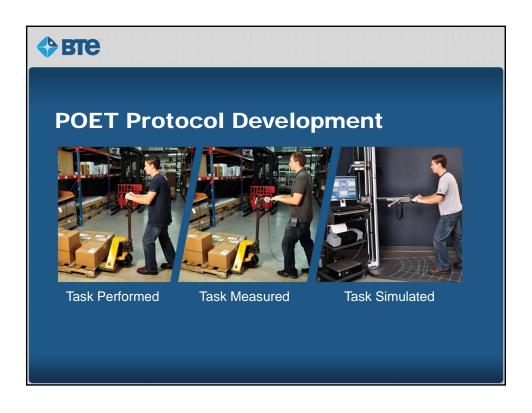
Identifying Program Necessity

- What is the cost of MSD to your company?
- What is the cost of the program?
- What is the return on investment?
- How long will it take to see a positive return on investment?





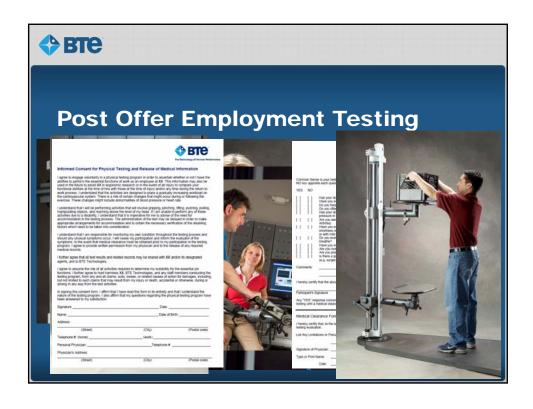




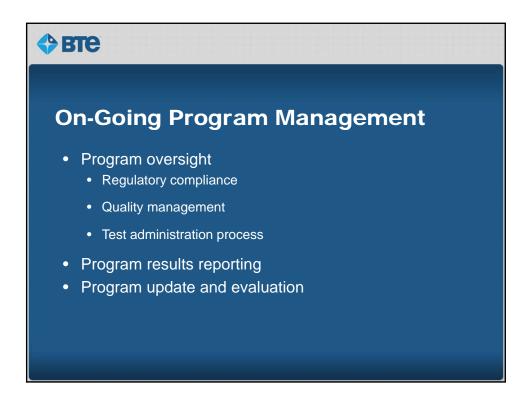
















What Does the Research Say?

Study 1 - The Effects of Pre-work Functional Screening on Lowering an Employer's Injury Rate, Medical Costs and Lost Work Days.

- Significantly less lost work days in screened population
- Screen employees significantly lower medical costs

Study 2 - Post Offer, Pre-Placement Testing Industry

- Medical costs dropped from over \$70,000 < \$10,000 for sprains & strains
- · Severity and overall costs significantly reduced

BTE

What Does the Research Say?

Study 3 - A New Pre-employment Functional Capacity Evaluation Predicts Longer-Term Risk of Musculoskeletal Injury in Healthy Workers

 Predicted risk of any injury, any back injury, any manual handling injury and any back injury from manual handling during the long term (1.6-6 years)

Study 4 - Shoulder injury reduction with post-offer testing

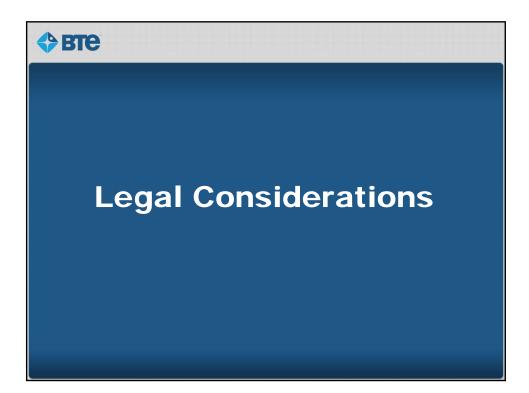
- Incidence of shoulder injuries 0% in tested group vs. 3.8% in untested group
- 37% decrease in costs related to shoulder injuries
- For every \$1 spent, saved \$14.



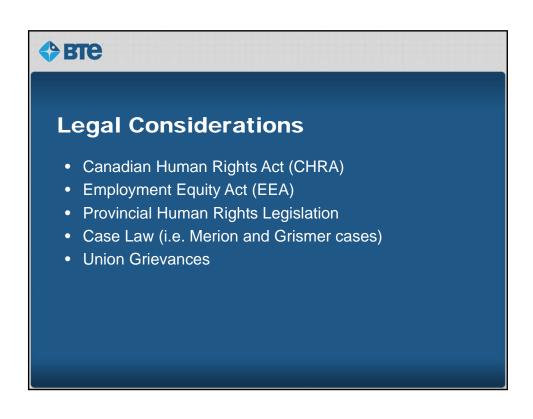
What Does the Research Say?

Study 5 – Medical & Pharmacy Costs for New Hire Nurses Following a Physical Strength Evaluation Screening on a Large Health System

- Examined health care & pharmacy claims within 1st year of employment
- 3,205 nurses included in study (86% females)
 - 1,120 part of historical control group,
 - 2,085 included in the tested group
- Total estimated cost avoidance over 2 years was \$2,692,152
- Total estimated reduced pharmacy costs over 2 years was \$504,653
- Less cost of program estimated savings \$1,598,403 per year (ROI 7.8:1)







BITE

Best Practices for POET

- · Need to have accurate physical demands analysis
- Consistent testing from one candidate to the next
- Testing standards not set in relation to age or gender of candidate
- Open and able to accommodate those with disabilities
- Test current employees against standards set
- Third party validation to statistically prove protocols are predictive
- Monitor results of candidates to identify adverse impact

ВТЕ

How is Success Measured?

- Direct Costs
 - Reduction in Injuries
 - Reduction in Early Turnover
 - Reduction in Claim Severity

