

Embracing Seven Years of Functional Testing at a Mine

Jenny Legge BPhty, Merg Managing Director, JobFit Systems International

Thank you



Funding

Australian Coal Association Research Program
ACARP Project C14045

'Validating the JobFit System Functional Assessment Method'



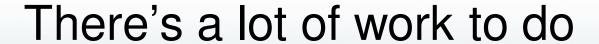
Researchers

Ms Jenny Legge BPhty MErg
Assoc Prof Robin Burgess-Limerick BMHS (Hons) PhD CPE

Overview



- How big is the problem of sprains and strains and who's problem is it?
- How have we tried to fix it in the past and did it work?
- What does a JobFit System PEFA look like and what does it tell us?
- How has it been researched and what are the results?
- What do the results mean to us and what can we learn from the experiences of others?





Something you probably do know:

- Mining industry worker numbers are increasing and injury rates are decreasing ©
- We need another 86,000 more workers between 2008 to 2020 ... Even more reason to look after the ones we've got!

We could be doing better



Something you may not know:

- 32 million = value of mining stat claims in Qld
- 1st = rank of average cost of claim by industry
- 33.5% = increase in mining claim cost
- \$211,300 = average case cost in mining
- \$4,150,143,300 in one year!



We all have responsibilities



Something you probably do know:

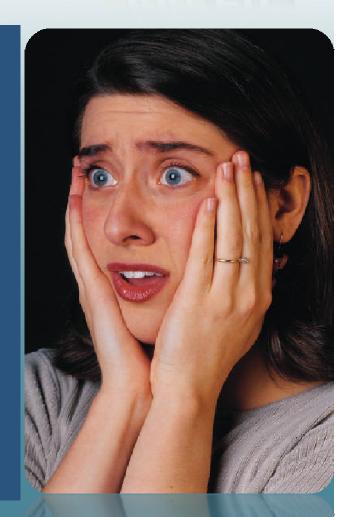
 The Queensland Workplace Health and Safety Act 1995 Section 28 (1) states "An employer has an obligation to ensure the workplace health and safety of each of the employer's workers at work".

It's bigger than you think



Something you may not know:

- 5.9% = percentage of Australian GDP of economic cost of workplace injuries...\$57.5 Billion (mining industry is 8% GDP)
- 3% = percentage borne by employers
- 49% = percentage borne by injured workers PLUS the pain!



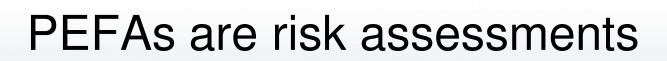
We need to try new things



Multifactorial injuries require a multifactorial approach

- Work
 - Equipment
 - Processes
 - Training & behaviour
- Workers
 - Medicals & X-rays
 - Past WC history
 - Musculoskeletal screens







Pre-Employment Functional Assessment

Periodic-Employment Functional Assessment Post-Employment Functional Assessment

= job specific short form functional capacity evaluation that measures a person's capacity to perform work at that time

Good to Excellent Reliability demonstrated

PEFAs are comprehensive



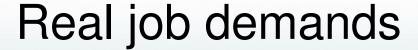
- Informed consent
- Medical history questionnaire
- Musculoskeletal screen
- Fitness test
- Postural tolerances (job-specific)
- Lifting and carrying (job-specific)
- Individual Feedback
- Overall score

PEFAs from real job demands

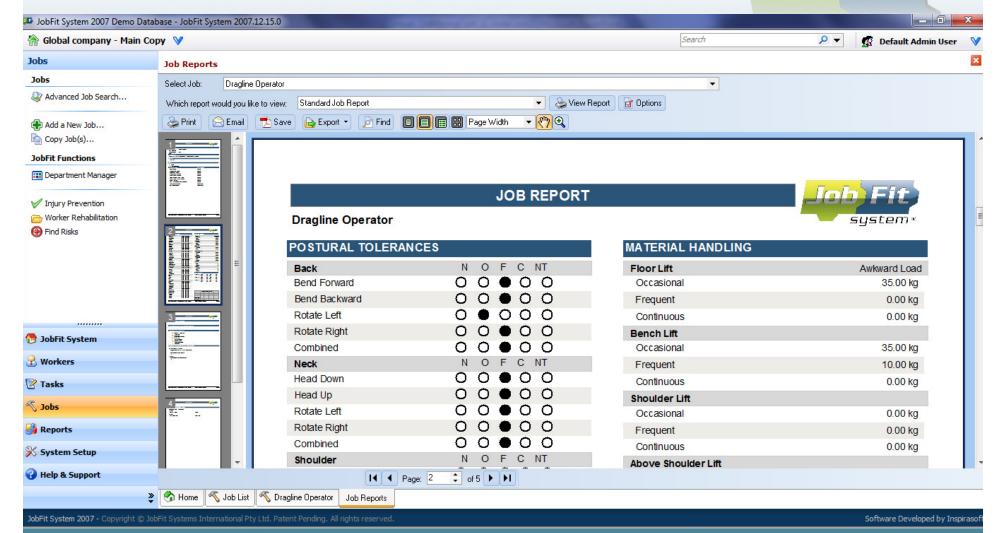


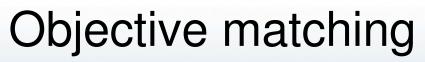
- JobFit System software compares worker capabilities to job demands
- Job demands database is used to develop job-specific assessment criteria
- Data matching capability is used to give PEFA score



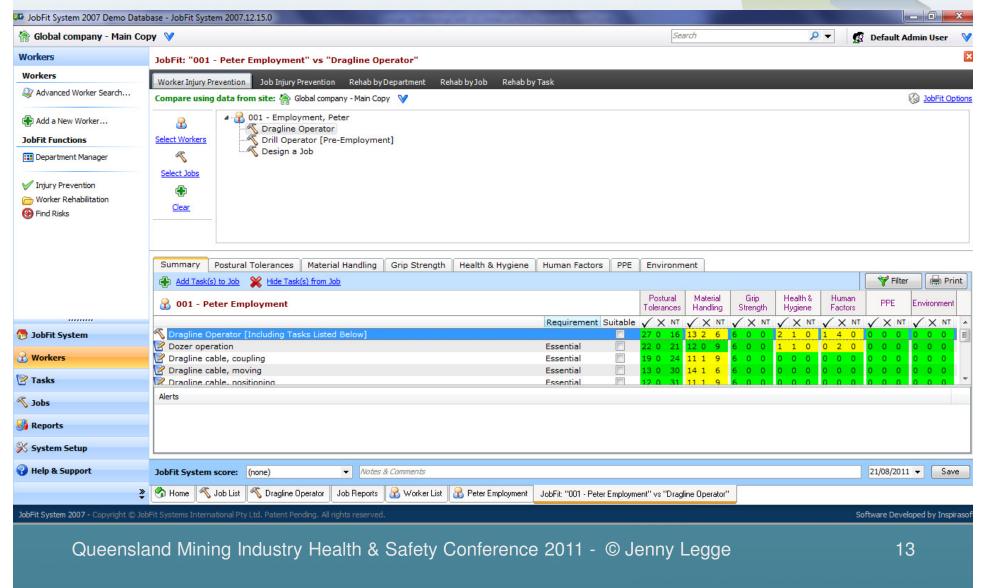






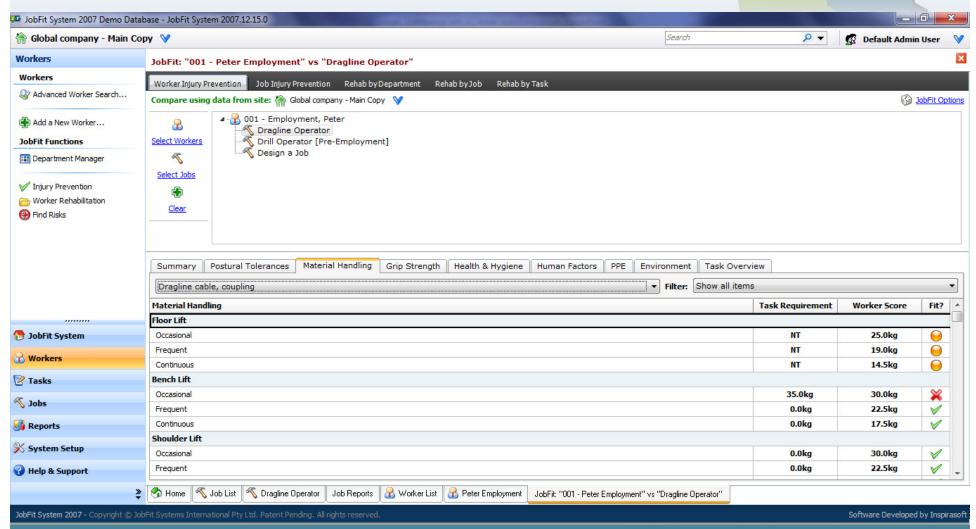


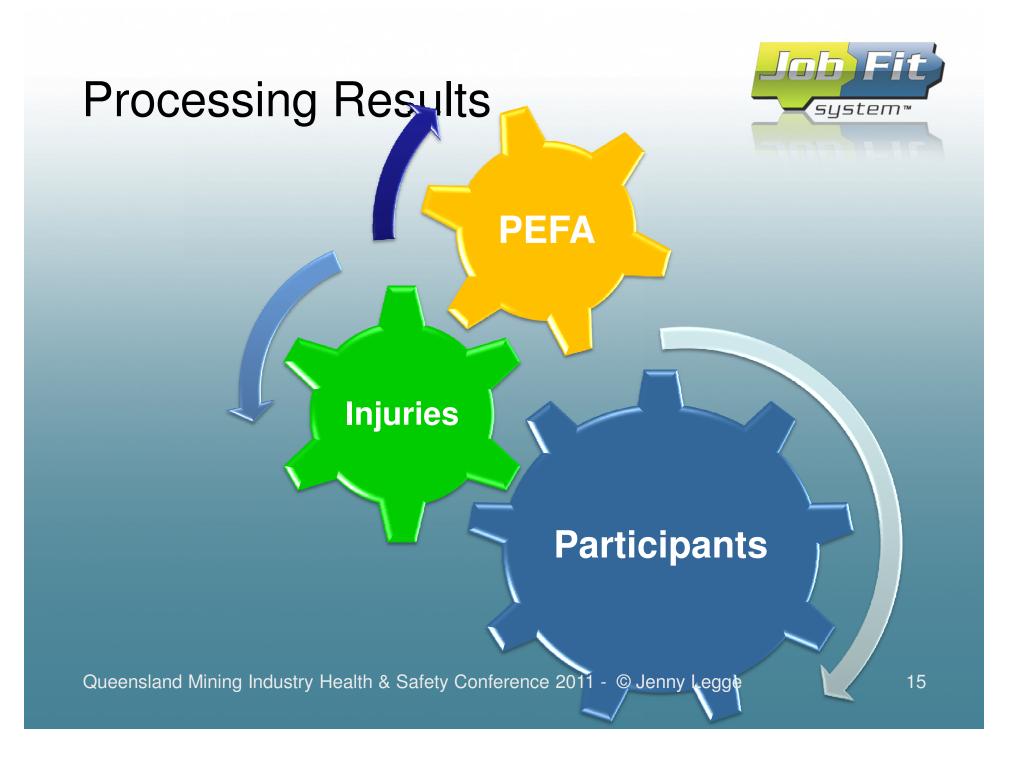












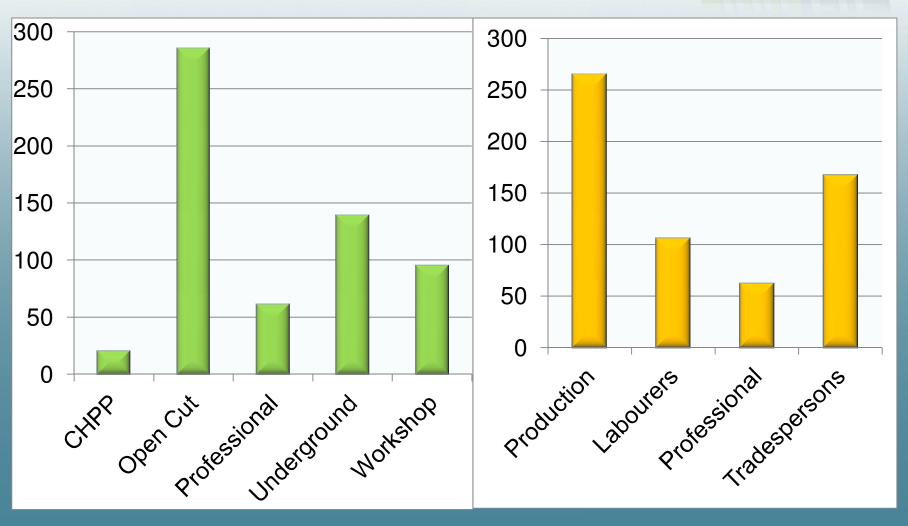
The Participants



- Large Queensland coal mine with OC and UG operations; part of their recruitment process
- 1019 PEFAs ...Excluded not hired, wrong job and female ... 600 records remained in the study
- Average age 37.3 years (range 17 62yrs)
- Open Cut workers oldest
- Tradespersons youngest

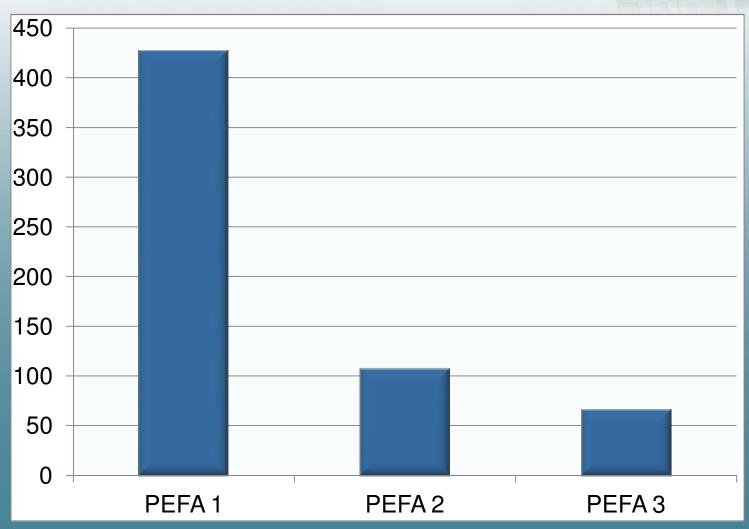
Departments and Occupations





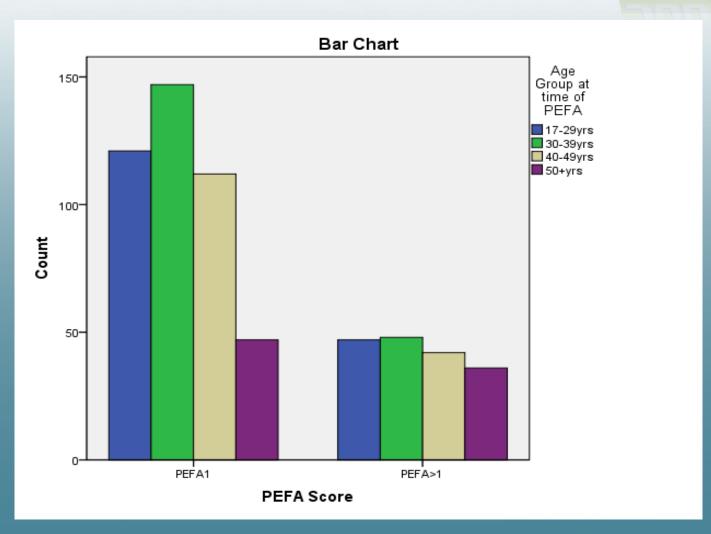


Most met the job demands



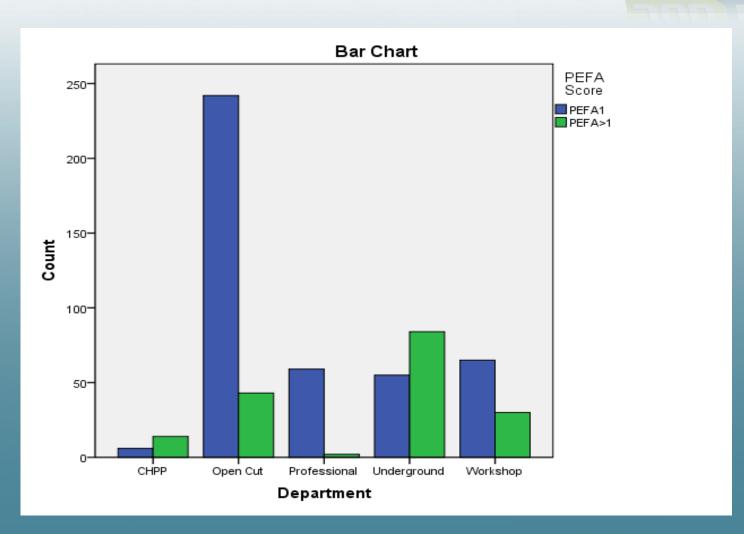
Age & PEFA was not significant





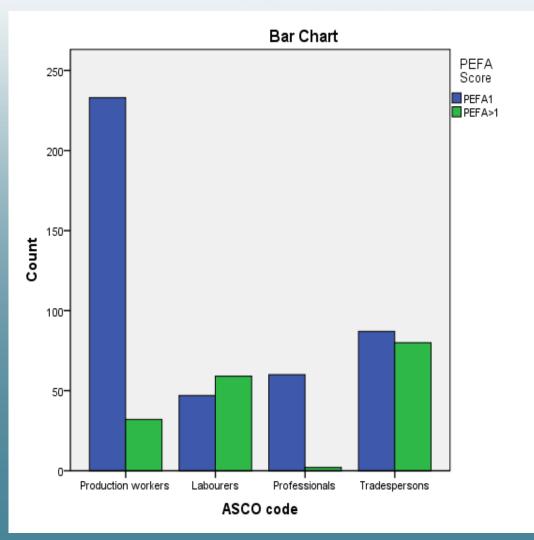


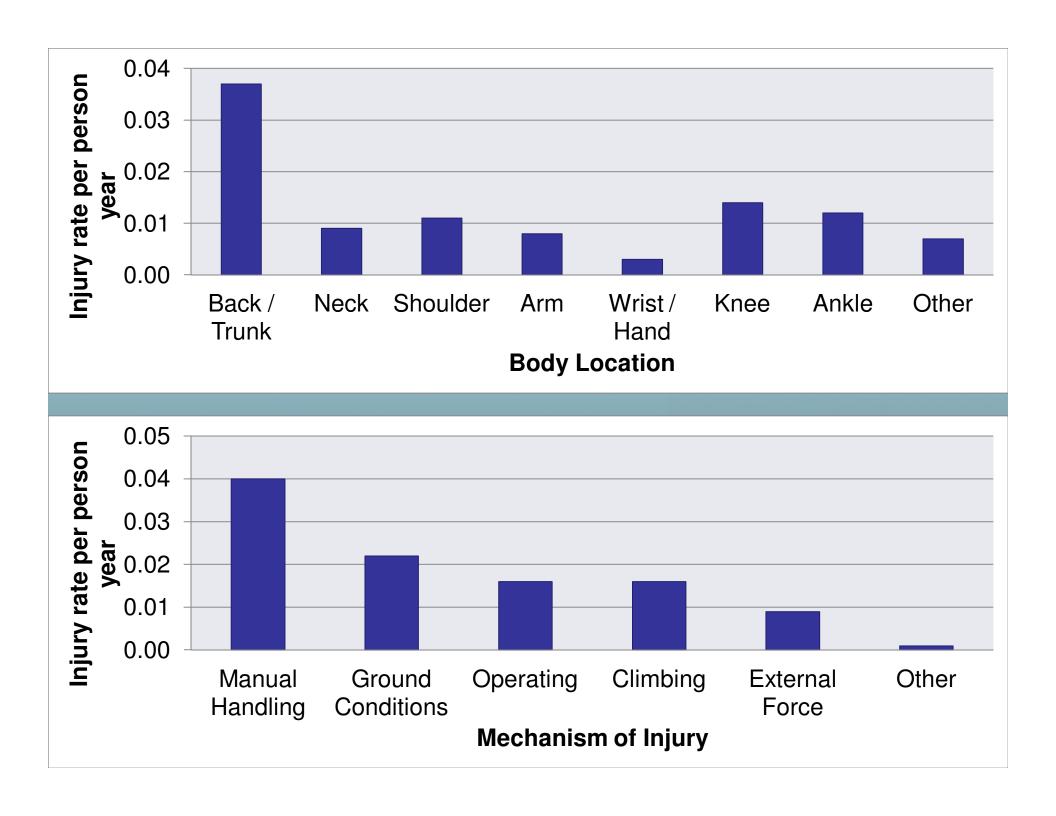


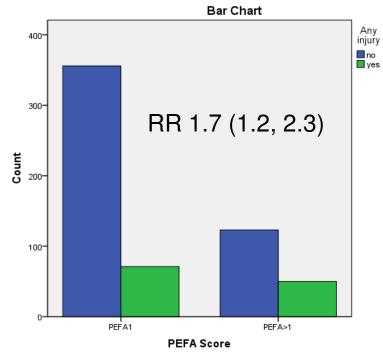


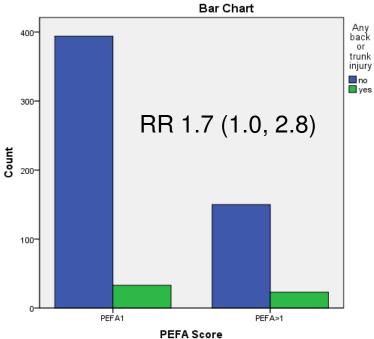


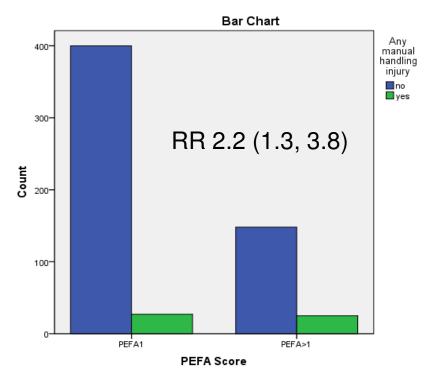
Job & PEFA was significant

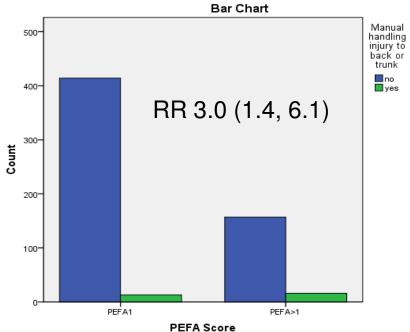






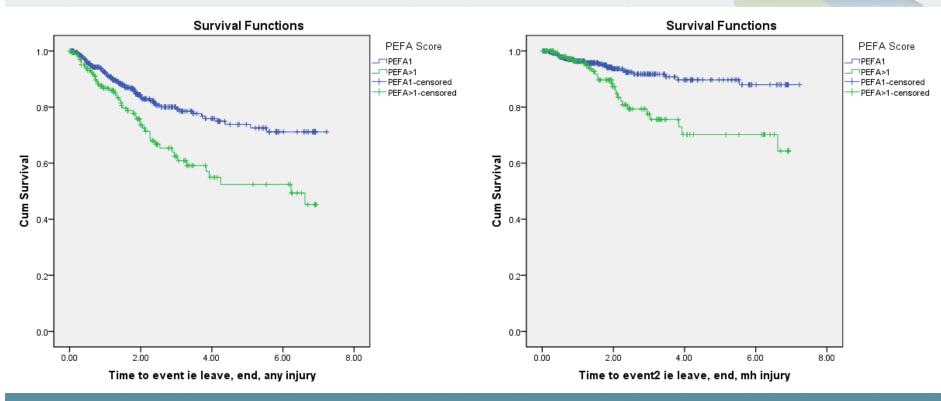






PEFA & Survival





Workers who do not meet their job demands are more likely to be injured sooner.

Employers and workers decide





Learning from others



Poor Planning Test ≠ job

Pass / Fail

No follow up

No job mods

It's all part of the solution



 JobFit System PEFAs identify the risk

- Employers and workers accept the risk
- We all have to work together to manage the risk





Jenny Legge 0438 426 477 jenny.legge@jobfitsystem.com

www.jobfitsystem.com