Project: Removal the Asphalt Paver tyre

- Removal of Asphalt Paver tyres are conducted up to 4 times per month, as per preventative maintenance schedules.
- Task requires two persons to manoeuver the tyre (approx. 200kg w/o water and 400kg w/ water) to allow the forklift to lift and transport the tyre.
- Removal: 45min to 60min per tyre.
- Working with restricted access within the wheel arch and access to the hub of the tyre.

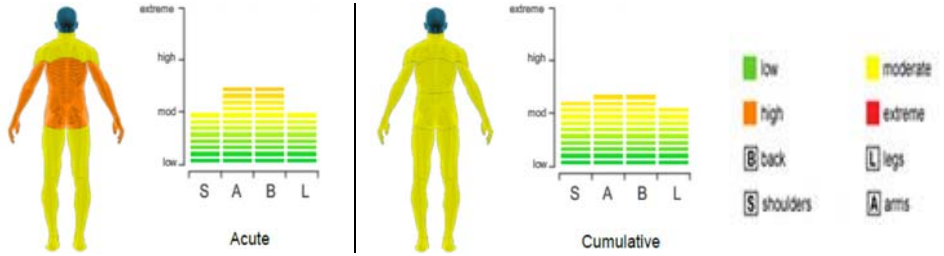
Control Strategies:

- Implemented the use of a manual wheel remover: Levanta with clamp on top of tyre and narrow wheel base.
- Knee pads were also procured for use by workers on hard flooring.
- Training was provided for new work procedures and safe work methods with new equipment.

Cost Benefits and Project Times

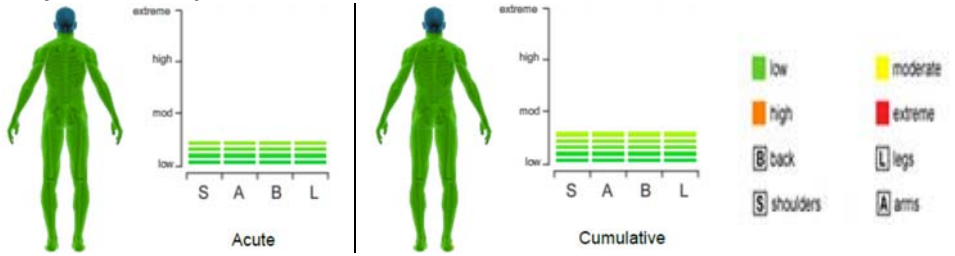
- Eliminated the need for forklift and operator.
- Eliminated the need to release the tyre from the paver to another work area.
- Reduced the labour required from 3 staff to 2; billable at $95/hr up to 4 times per month, approx. $380/mo.

Health Issues and Initial Assessment



- Awkward postures in the back, neck when kneeling.
- High force required when lifting/manoeuvring tyre and using hand tools.
- Repetitive use of hand tools while in sustained static postures.
- Exposure to low levels of hand-arm vibration with use of rattle gun.
- Risk of crushing injury and sudden forces from tyre imbalance during manoeuvres.
- High acute risk to the back and arms and hands; moderate risk of cumulative injury.

Analysis After Implementation



- Removed the risk of imbalanced loads and reduced overall exposure to manual handling.
- Overall reduction resulted in low risk for both acute and cumulative risk.

Risk Reductions		
	Acute	Cumulative
Shoulders	50%	50%
Arms	67%	55%
Back	67%	55%
Legs	50%	44%

Fatality	Severe Disability	Moderate Disability	Temporary Injury	Discomfort	Comfort/ Efficiency	Conditioning	Social Connection	Profitability	Business Integration	Industry Liaison
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SAFETY — Occupational Health — Doing - Being - Becoming - Belonging — Health & Wellness — PERFORMANCE