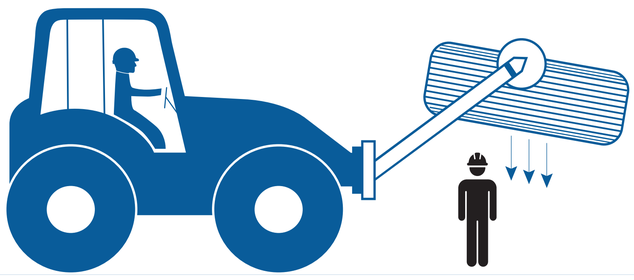
TYRE HANDLING OPERATIONS

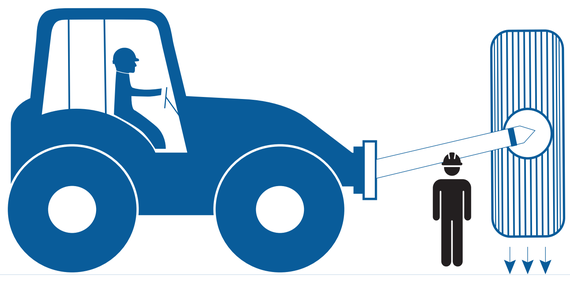
DIRECT AND INDIRECT INTERACTIONS

SCENARIO 1 - TYRE HANDLER UNPLANNED RELEASE OF LOAD (E.G., TYRE ASSEMBLY) ON FITTER (SPOTTER)

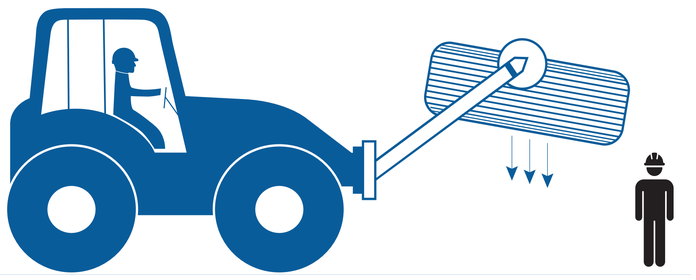
INDIRECT INTERACTION WITH HUMAN. Hazards: poor pad grip; hydraulics fail; or wet tyre, rim, or wheel assembly. Indirect interaction can also occur with equipment.



Fitter standing under the suspended load



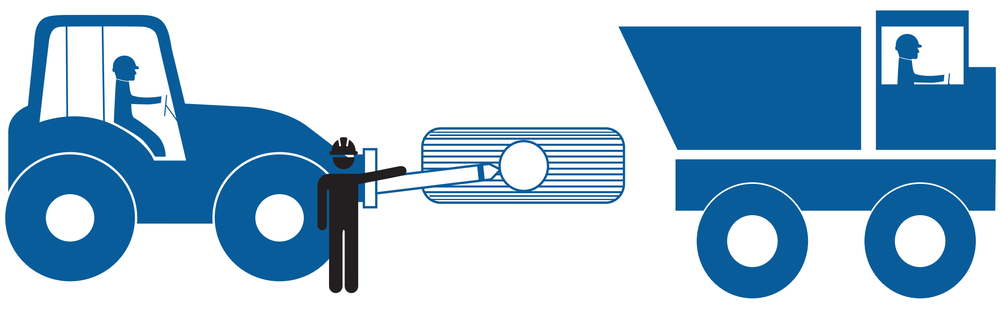
Fitter standing within the arms



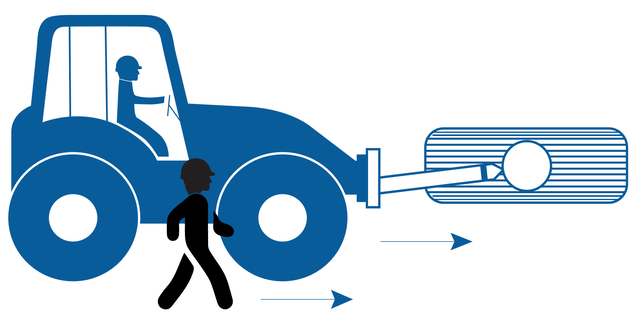
Fitter standing outside of arms

SCENARIO 2 - TYRE HANDLER MACHINERY CONTACTS FITTER

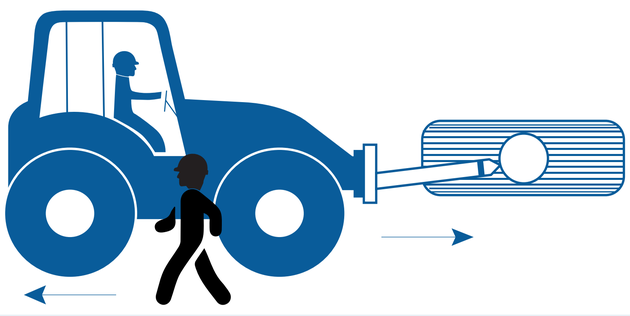
DIRECT INTERACTION WITH HUMAN. Hazards: poor visibility, work within proximity



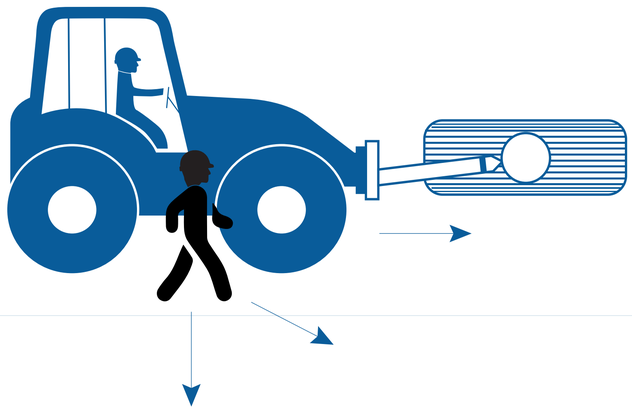
Spotting near the loaded arms and a haul truck



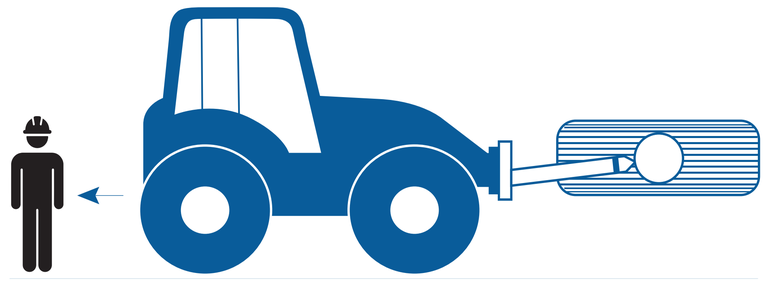
Walking astride the handler, same direction



Walking in opposite direction of tyre handler



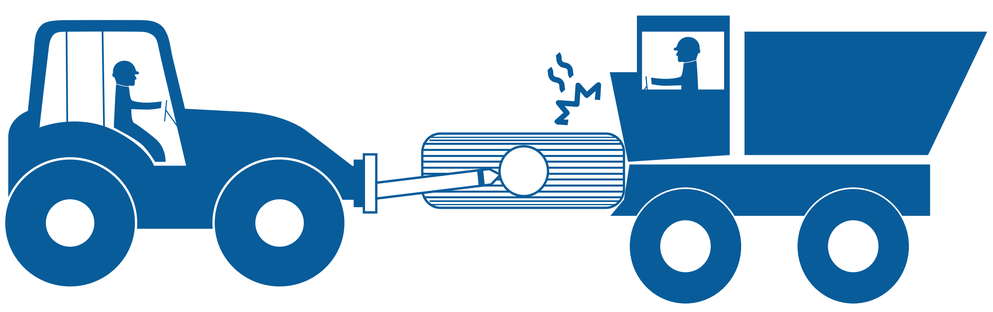
Walking perpendicular or at an angle within range of the tyre handler



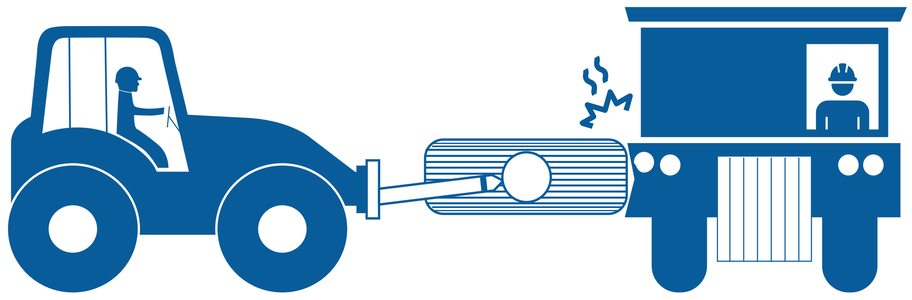
Operator not in the cab. Tyre handler rolls away, not chocked, handbrake fails, etc.

SCENARIO 3 - TYRE HANDLER CONTACTS EQUIPMENT/MACHINERY

DIRECT INTERACTION WITH EQUIPMENT. Hazards: poor visibility, compromised working space



Tyre handler collides with haul truck – front or rear



Tyre handler collides with haul truck - side

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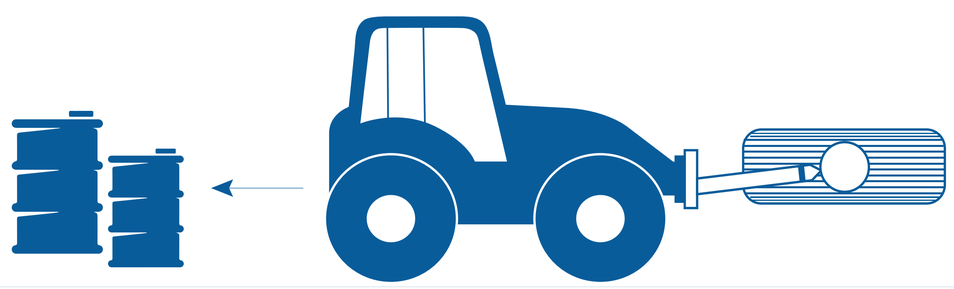
DIRECT AND INDIRECT INTERACTIONS

SCENARIO 3 CONTINUED

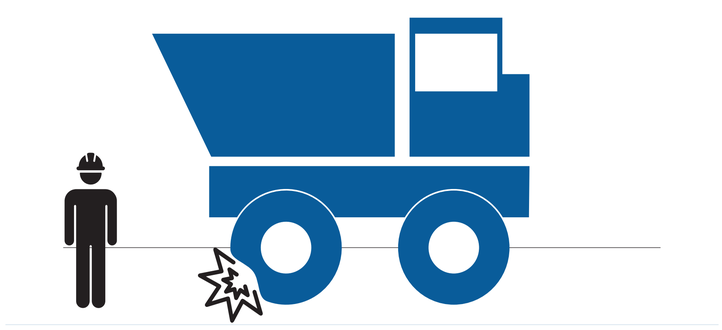
Tyre handler collides with haul truck or equipment at rear when reversing



Operator not in the cab. Tyre handler rolls away, not chocked, handbrake fails, etc.

SCENARIO 4 - TYRE BURST, CATASTROPHIC WHEEL/RIM FAILURE/DISASSEMBLY – DURING INFLATION

INDIRECT INTERACTION WITH HUMAN. Hazards: air blast, projected components, standing in line-of-fire or within 5 metres of tyre – during inflation. Indirect interaction can also occur with equipment.



Air blast strikes fitter – outside line-of-fire but within 5 metres of tyre

Air blast or projected tyre/wheel/rim component strikes fitter – within line-of-fire