A23 TRAILER REPAIRS

RISK ASSESSMENT

Using Porta Power

Location:	All Workshop & MSU Technicians	**Subject:**	Using Porta Power.
Document Ref:	A23 RA1 041 Version 2		

Job Analysis - typical tasks:

The Porta Power tooling is used within workshops and by MSU technicians to straighten bent brackets and frames. The tooling comprises a hand-operated hydraulic pump connected to a hydraulic ram via an oil feed pipe. Localised heat may be applied to the item being straightened to aid the bending action.

Restrictions / Special Notes:

- The use of Porta Power tooling must only be undertaken by competent workshop / MSU employees.
- A23 Apprentices are not permitted to use Porta Power tooling until deemed competent by a Regional Fleet Engineer.

Who may be harmed & how?	Injuries Anticipated	Hazards Anticipated
• Workshop / MSU Technicians. • Customer Employees. • Contractors.	• Manual handling injuries. • Slips, Trips and Falls. • Impact injuries / Head Injuries. • Eye injuries (release of hydraulic fluid/tools). • Hand injuries. • Chemical exposure / Burns.	• Exposure to pressurized systems. • Fire & Explosion. • Noise > 85db. • Unexpected movement of the trailer. • Sudden release of stored energy due to equipment failure or incorrect use.

Base Line Risk Assessment

Severity of risk / injury		Likelihood of risk / injury	
No Injury (1)	Minor Injuries (2)	Extremely unlikely (1)	Unlikely (2)
Major Injuries (3)	Fatal (4)	Likely (3)	Very Likely (4)

A23 Trailer Repairs Risk Level Calculation Formula: (Risk Level = severity x likelihood)

HIGH 9 - 12 HALT the activity immediately. Review & reduce the risks identified.	**MEDIUM 6 to 8** Inform management & seek further advice before proceeding.	**LOW 1 to 5** Review the operation / activity & take any steps necessary to reduce & control the risks.

Control measures should be in the order of ELIMINATE; ISOLATE; SUBSTITUTE; REDUCE; CONTROL

Existing control measures:

- **Vehicle Movement & Lockout:** Fully lock out the trailer prior to work. Apply trailer park brake, use wheel chocks, display VOR board, and remove keys from the shunter/unit. MSU technicians should use their MSU to lockout movement.
- **Exclusion Zones:** Customer drivers/visitors must not have access to the work area. They must stay in their unhitched unit or reception. No other persons are to be in the work area whilst Porta Power tooling is being used.
- **Slips, Trips, Falls & Manual Handling:** Apply safe manual handling techniques. Maintain a clean work area, clear of parts, waste, and excess airlines. If the work area is unsafe, request the customer moves the trailer.

Hazard Specific Controls:

Stored Energy / Impact Injuries:

- Inspect tooling for damage before and after use. Report defects immediately and do not use if in doubt.
- Use the correct attachments for the task. Ensure both ends of the ram are flat against the items being pushed.
- Do not stand in the direct line of fire should the equipment suddenly release. Work as far from the area as the hose length allows.
- **Heat Transfer:** Using excessive heat can cause hydraulic seals on the ram to fail. Heat must be directed away from the tooling and kept to a minimum.

Fire Hazard / Hot Work: Hot work must be fully assessed and customer permission granted. Escape routes must be clear. Fire extinguishers must be present. Clean the area of flammables.

Exposure to chemicals (COSHH): Use nitrile gloves to prevent skin exposure to hydraulic oil and grease. Practice good industrial hygiene.

Noise Exposure: Wear hearing protection as tools will exceed 85db action levels.

Details of Personal Protective Equipment (PPE) requirements:

- A23 allocated overalls.
- Safety Boots.
- Safety Glasses (Mandatory whilst using Porta Power or working under a trailer).
- Hard Hat / Bump Cap (Mandatory whilst using Porta Power).
- Gloves (Cut resistant and Nitrile).

Environmental issues:

- Hydraulic systems pose specific environmental risks. All spills must be dealt with immediately using spill kits and reported to management.

What further action is necessary?

Action: Comply with other issued risk assessments. Stop work and report any noncompliance issues. Report incidents/ near misses immediately. Maintain high standards.

Post Preventative Risk Assessment

Severity of risk / injury		Likelihood of risk / injury	
No Injury (1)	Minor Injuries (2)	Extremely unlikely (1)	Unlikely (2)
Major Injuries (3)	Fatal (4)	Likely (3)	Very Likely (4)

A23 Trailer Repairs Risk Level Calculation Formula: (Risk Level = severity x likelihood)		
HIGH 9 - 12 HALT the activity immediately.	**MEDIUM 6 to 8** Inform management & seek advice.	**LOW 1 to 5** Review operation & control risks.

All authorized personnel are required to sign that they have read and understood the requirements of this risk assessment.		
Name	**Signature**	**Date**