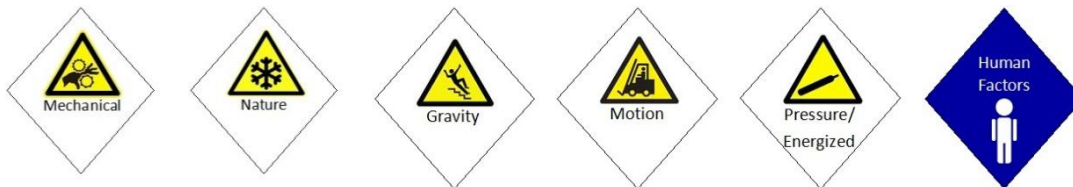


PURPOSE/APPLICATION

The purpose of this Safe Job Procedure is to provide guidance for the safe placement and use of high-pressure lifting cushions, commonly known as airbags. This Safe Job Procedure is to be used as a supplementary document in conjunction with the manufacturer’s operating instructions.

COMMON HAZARD SOURCES AND CONCERNS



PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Canadian Plains Minimum Requirements
- Additional PPE maybe required on client sites including: Flame Resistant Clothing (FRC), Personal 4-head monitor (as per site requirements)

TRAINING

- Canadian Plains and Task/Site Specific Requirements
- Review of Operators Equipment Manual (OEM)

TOOLS/EQUIPMENT

- Airbags, hose, and associated equipment
- Skids
- Plywood (as required)

PRE-JOB ACTIVITIES

1. Assess the work according to the HIAC process, completing the Pre-Job or Site HIAC, ensuring that site hazard sources have been controlled (i.e. Motion – vehicles and equipment controlled).
2. Complete inspection of the area, confirm the planned scope of work, communicate hazards during the daily tailgate meeting, and implement controls.
3. Inspect all Tools and Equipment – Complete daily pre-use inspection of all tools and equipment.
4. Verify the weight of the asset/equipment to be moved or lifted using engineered drawings, and ensure the airbag has adequate lifting capacity

#	Job Steps	Hazards	Control Measures
1	Inspect airbags	<ul style="list-style-type: none"> ▪ Defects in the airbag, hoses, or regulator ▪ Cracks, gauges, or burns/abrasion markings on airbags 	<ul style="list-style-type: none"> ▪ Visually inspect Kevlar for cuts or abrasions ▪ Check all hoses fittings and pressure gauges for leaks or damage ▪ Verify that weight rating, pressure, and lift capacities are not exceeded for planned asset/equipment move/lift
2	Place airbags on or against a flat level surface.	<ul style="list-style-type: none"> ▪ Uneven or soft ground conditions ▪ Inadequate number of skids to support the weight being moved 	<ul style="list-style-type: none"> ▪ Support airbag with cribbing to ensure a stable surface ▪ Inspect cribbing for cracks or damage



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#	Job Steps	Hazards	Control Measures
			<ul style="list-style-type: none"> Reference SWP 81 – Cribbing & Pipe Cones
3	Center airbag under or against the load to prevent shifting during inflation	<ul style="list-style-type: none"> Slippery surfaces Misalignment 	<ul style="list-style-type: none"> Remove all ice and debris from the surface of the pipe and the surface of the airbag to ensure adequate contact If using two airbags in a series, do not place objects between the airbags
4	Connect air supply hoses	<ul style="list-style-type: none"> Overpressure Unplanned pressure release Mis-matched fittings 	<ul style="list-style-type: none"> Ensure regulators and hoses are set up as per the manufacturer's instructions Check for pressure leaks at low pressure prior to full inflation of airbag
5	Inflate airbag(s) to begin lifting or shifting the load	<ul style="list-style-type: none"> Line of fire Crush/pinch points Bag slipping Load shifting Compressed air 	<ul style="list-style-type: none"> Set up an exclusion zone around the work area Ensure spotters are in place to monitor the movement of the load Continuous monitoring of pressure gauges Keep all workers out of the line of fire, including the person operating the regulator
	Deflate and remove the airbag(s) once task is complete	<ul style="list-style-type: none"> Bag slipping Inadvertent movement of load 	<ul style="list-style-type: none"> Ensure the pipe or object is supported by adequate cribbing Identify potential line of fire spots and keep all workers out of the area

ADDITIONAL PRECAUTIONS

Ensure airbags are placed against flat surfaces only to prevent sudden shifting as the load starts to move. If cribbing is required to support airbags, ensure cribbing is staged on or against a flat level surface as well. Consider the placement of plywood on the top level of the cribbing to aid in the creation of an even and level surface.

REFERENCES / ADDITIONAL INFORMATION

Canadian Plains Safe Work Manual

- SWP 18 - Tools/Equipment/Machinery
- SWP 22 – Ergonomics – Manual Material Handling
- SWP 34 - Cranes, Hoisting and Lifting Devices
- SWP 81 - Cribbing and Pipe Cone Use

Regulations:

Alberta OHS Code



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- Part 10 Fire and Explosion Hazards
- Part 15 Managing the Control of Hazardous Energy
- Part 16 Noise Exposure
- Part 18 Personal Protective Equipment
- Part 25 Tools, Equipment, and Machinery

British Columbia OHS Regulation

- Part 12 Tools, Machinery and Equipment Welding, Cutting and Allied Processes

Manitoba OHS Regulations

- Part 16 Machines, Tools, and Robots
- Part 17 Welding and Allied Processes
- Part 19 Fire and Explosive Hazards

Saskatchewan OHS Regulation

- Part 361 Fire Extinguishers
- Part 370 5 Hot Work

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