

QUARRY SAFETY WEEK 2024

TOOL BOX TALK SERIES



TOPIC: Mobile Plant & Machinery

INTRODUCTION

Typically, nearly half of all fatal accidents in quarries involve vehicles at quarries. It is imperative that all mobile plant, machinery and vehicles are safe to operate, that operators are trained and competent, and that pedestrians are segregated from quarry traffic wherever possible.

THE HAZARDS

- Vehicles overturning
- Vehicles reversing
- Visibility restrictions
- Quarry face or stockpile collapse
- Working close to face crest
- Travelling on steep inclines
- Falls from height
- Pedestrians in the area
- Getting in and out of machinery
- Defective equipment



TRAINING REQUIREMENTS

- All operators must hold the certified training for **any** item of plant or machinery they are operating, including the appropriate QSCS (Quarries Skills Certification Scheme) training.

SAFE OPERATING PRACTICE

- Prior to commencing operation, a daily check of all safety features and operations should be completed and recorded by the operator. Operators have a legal duty to report any defects or safety issues.
- Ensure reversing cameras, alarms, flashing beacons, mirrors, lights and any other visibility aids are functioning correctly and that windows are clear of dust and debris. Report all defects to your manager / supervisor.
- Always ensure adequate bunding is in place on all haul roads, ramps and crests of quarry faces to prevent overturning or travelling over an edge. **Bunds must be 1.5m high, or half the diameter of the largest wheel in use at the location, whichever is larger.**
- All operators must make themselves familiar with the Traffic Management Plan for the location they are working in and the risk assessment for the machinery they are operating.
- If working during hours of darkness, the area must be adequately lit to enhance visibility.
- Seatbelts should be worn at all times during operation.
- Mobile plant should be driven with attachments/equipment in the lowest safe position.
- Operators should drive appropriately to site and weather conditions.
- Operators must report any collisions or near misses to their supervisor/manager. **REMEMBER: A near miss this time could be an accident next time!**
- No person should ride in the cab of a moving vehicle in addition to the driver unless fitted with a passenger seat and seat belt.
- Use three points of contact when mounting and dismounting mobile plant.
- Under no circumstances should any person ride on the outside or in the bucket of any vehicle.
- The Safe Working Load of the machine must never be exceeded.
- The use of mobile phones by operators of mobile plant should be prohibited while the vehicle is in motion. **REMEMBER: You are working in a hazardous environment and mobile phones are a distraction.**
- Dumpers/lorries should be evenly loaded and not loaded over the cab end.
- Never walk or walk under an unsupported body, bucket or boom.
- Only competent operatives should carry out inflation of tyres from a safe position. The correct tyre pressure must be known prior to inflation.

MOBILE PLANT DAILY PRE - WORK INSPECTION								
Supervisors name: _____								
Date of week ending: _____								
Machine make/model: _____ Hours: _____								
Yes = <input checked="" type="checkbox"/> No = <input type="checkbox"/> Operator Initials: _____								
		MON	TUE	WED	THUR	FRI	SAT	REMARKS
1	Flashing Beacon							
3	Mirrors							
4	Reverse Camera							
5	Wipers & Window Washers							
6	Lights							
7	Horn							
8	Lap belt / Seat Belt							
9	Steps							
10	Hand Rails							
11	Emergency Stop							
12	Hand Brake							
13	Brakes							
14	Drivers Seat							
15	Windows							
16	Fire Extinguisher							
17	Guards in place							
18	Reversing Alarm / Tracking Alarm							
19	Battery condition							
20	Tyres / Tracks Condition							
21	Steering							
22	Quick hitch pin / Safety Travel Pins							
23	FOPS (Falling Object Protection System)							
24	ROPS (Roll Over Protection System)							
25	GA1 / Brake Test In Date							
26	Transmission oil							
27	Engine Oil							
28	Hydraulic Oil							
29	Water							
30	Fuel							
31	Brake fluid							
32	Other							
Operator Signature: _____		Manager Signature: _____						
Comments: _____								
All sections of this form MUST be completed before handing to your supervisor at the end of the week, remember the plant operator has a duty to report known defects.								
Works Completed: _____								
Fitter to Sign off works are complete: _____ Date: _____								

REVERSING

- Minimise reversing wherever possible.
- Minimise the distance for reversing.
- All drivers getting loaded must remain in their vehicles while waiting to get loaded.
- Always ensure all visibility aids are functioning correctly such as reversing cameras, flashing beacons and convex mirrors.
- Install warning signage in areas where reversing cannot be eliminated.
- Always ensure the operating radius and turning circle of the machine is clear of pedestrians before reversing.

- If there is any restriction to visibility, a spotter wearing high visibility clothing should be in place to assist the operator.
- Reversing cameras comes in various forms, from ordinary cameras that give a view to the rear, to technology that stops the machine if sensors detect an obstruction.



PARKING

- Avoid parking on inclines as far as possible. If a machine must be parked on an incline, the wheels must be chocked adequately.
- Ensure any raised attachment or equipment has been placed on the ground.
- Ensure the machine is parked in a safe location so as not to cause an obstruction to traffic and pedestrians.
- Avoid parking and leaving your vehicle in hazardous areas such as close to quarry faces, high stockpiles or processing plant.
- Shut down the engine.
- Ensure parking brakes are applied.
- Remove the ignition key.
- Turn off the isolator switch where applicable.

Reverse parking should be encouraged where possible.

REMEMBER: ALWAYS Ensure That All Safety Features in Mobile Plant are Functioning Correctly

Disclaimer: This Toolbox Talk has been prepared by Dynamic Safety Solutions Ltd. Clients are reminded of the requirement to have Safe Operating Procedures as per the relevant Health & Safety Regulations. Every care has been taken to ensure that the information contained herein is correct and accurate at the date of publication. However, Dynamic Safety Solutions cannot accept any responsibility or liability for any errors, inaccuracies or omissions which may have occurred inadvertently



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