

ACTIVITY	PERSON AT RISK	SIGNIFICANT HAZARDS	RISK*			RISK CONTROL MEASURES	RESIDUAL RISK**		
			P	S	DR		P	S	DR
Preparing to change a wheel away from workshop	Driver and mechanic	Not ensuring vehicle is on hard standing may result in the failure of the vehicle jack	3	4	12	<ul style="list-style-type: none"> Vehicle to be parked on a hard ground surface with handbrake applied, in gear and engine switched off before attempting to jack it up. If this is not possible then a solid board should be used to rest the jack on and to spread the weight. 	2	4	8
As above	As above	If the vehicle is parked by the roadside there may be a danger of being hit by other road users	3	4	12	<ul style="list-style-type: none"> Vehicle to be parked away from the dangers of other road users. Vehicle hazard warning lights to be used where fitted. If on the motorway, vehicle to be parked on hard shoulder as far away from the roadway as possible and a warning triangle to be used to alert other motorists. 	2	4	8
Use of vehicle jack	As above	Use of a faulty vehicle jack may lead to vehicle slipping and injuring staff	4	4	16	<ul style="list-style-type: none"> Vehicle jacks to be checked on a regular basis to ensure that they operate correctly. Hydraulic jacks to have their fluid level checked on a regular basis and topped up where necessary. 	2	4	8
Loosening of wheel nuts	As above	Use of incorrect or worn tools may lead to abrasions to hands or back injuries	4	3	12	<ul style="list-style-type: none"> Correct type and size of wheel brace to be used. If nuts are very tight, use a piece of metal tubing to gain extra leverage. Wheel nuts to be cracked-off when vehicle is on the ground, but not removed completely until vehicle is raised. 	2	4	8

Lifting off wheel	Driver and mechanic	Incorrect lifting technique may lead to back injury	4	3	12	<ul style="list-style-type: none"> The wheel to be grasped firmly and lifted from the wheel studs with the knees bent and the back kept straight. Assistance to be sought if necessary. Wheel to be rolled to one side not carried. 	2	3	6
Refitting replacement wheel	As above	Incorrect lifting technique may lead to back injury	4	3	12	<ul style="list-style-type: none"> Wheel to be rolled into position not carried The wheel to be grasped firmly and lifted onto the wheel studs with the knees bent and the back kept straight. Assistance to be sought if necessary. 	2	3	6
Tightening wheel nuts	As above	Failure to tighten wheel sufficiently may lead to it becoming loose and causing an accident	3	4	12	<ul style="list-style-type: none"> Wheel nuts to be tightened by hand initially whilst rotating the wheel to ensure that it is in its proper position. Final tightening to be done using wheel brace on diagonally opposite nuts. Use a calibrated torque wrench to get the correct tightness and follow the manufacturer's torque settings Nut tension indicators to be used on all HGV wheels. 	2	3	6
Removing vehicle jack	As above	Failure to lower vehicle down steadily may result in it dropping and causing injuries	3	4	12	<ul style="list-style-type: none"> The jack to be released slowly to ensure that it is completely free of the vehicle before it is removed. 	2	3	6

Using compressed air	Driver and mechanic	Personal injury or fatality from air blast from a ruptured or burst tyre or wheel parts	4	5	20	<ul style="list-style-type: none"> • Use airline hoses long enough to allow the operator to stay outside the likely explosion trajectory during inflation. • Don't use 'unrestricted' airlines (i.e. without a gauge or pressure control device) or valve connectors that require the operator to hold them in place. • Don't exceed the manufacturer's recommended tyre pressure for the size and rating of the tyre. • A strong, safely secured safety cage and marked exclusion zone will be used for inflating HGV tyres. • The use of a fabric containment device when inflating tyres in the field will be considered. 	2	4	8
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PROBABILITY (P) = Remote (0) – Unlikely (1) – Possible (2) - Probable (3) – Very Likely (4) – Certain (5)

SEVERITY (S) = No injury (0) – Minor Injury (1) – First-aid Injury (2) – 3 Day Injury (3) – Major Injury (4) – Fatality/Disability (5)

DEGREE OF RISK (DR) = PROBABILITY x SEVERITY

* Risk identified in the absence of any control measures in place.

** Residual risk is the level of risk that remains after suitable and sufficient risk control measures are introduced

Signature Sheet

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Document Control			
Version	Date	Comment	Person
1	01/02/2025	Original document drafted	Keith Ambrose
2			
3			
4			

Risk Assessment Matrix – Multiply the scores Probability (P) x Severity (S) to determine Degree of Risk (DR)

			Probability					
			(0)	(1)	(2)	(3)	(4)	(5)
Severity			Remote	Unlikely	Possible	Probable	Very Likely	Certain
			No Injury	(0)	0	0	0	0
Minor Injury	(1)	0	1	2	3	4	5	
First-Aid Injury	(2)	0	2	4	6	8	10	
3 Day injury	(3)	0	3	6	9	12	15	
Major injury	(4)	0	4	8	12	16	20	
Fatality/Disability	(5)	0	5	10	15	20	25	

Low	0 - 2	Monitor	Tolerable risk. No additional controls required. Employees made aware of safe/correct systems of work.
Medium	3- 9	Improvement	Action may be required to further reduce the risk to acceptable level. Periodic review of process or activity.
High	10 +	Immediate Action	Unacceptable risk. Stop activity immediately. Inform next level of management and refer to Safety Co-ordinator. Possible cessation/withdrawal of process or activity