

#### Workplace Transport & Pedestrian Interface - Self Audit tool

This guidance has been produced by a working group of QNJAC which comprises of industry experts from varied backgrounds, the Trades Unions and HSE\*. The purpose of this document is to provide a structured framework to enable organisations to carry out self-audits of transport and pedestrian controls to prove their effectiveness as well as identifying weaknesses in the controls that could lead to serious injury or loss of life.

Approximately 20% of all fatalities in the mineral extraction industry involve vehicles or other mobile equipment. When a pedestrian comes into direct contact with mobile equipment in a quarry environment the likelihood of any resulting incident being of a serious or fatal nature is very high.

Systems for achieving effective control of transport related hazards will include reference to many areas including:

- Development of an appropriate traffic management plan that is customised for the specific issues at each site
- Provision of segregation measures to separate traffic and pedestrians
- Appropriate maintenance of equipment
- Training and competence of individuals
- Supervision and refresher training
- · Audit and review of effectiveness of control measures

The findings of the audit can be recorded and used to write an action plan and a record made of the actions taken as a result of the audit. The question set can never be totally comprehensive in all circumstances, but it represents a good starting point that will be adequate in most situations.

#### Scope

The self-audit is not exclusive to the quarry industry. The same risks exist across a wide range of industries and the guidance therefore has a use in many industries within the mineral products sector. The questions in the self-audit do provide prompts to consider all aspects of the pedestrian / traffic interface.

#### Carrying out the audit

Allow enough time to carry out the audit. At large sites it is likely that the audit may have to be carried out over a period of time. Plan the time and stay to plan as far as possible. The audit does not have to be done in one go, so be realistic. The audit process is part of the function of supervision and monitoring, so it is useful if it is seen to be a regular on-going process rather than a one-off event.

Remember that the purpose of the audit is to uncover weaknesses in the systems on your site. Finding weaknesses is therefore a success and action taken as a result of the audit may prevent serious accidents or death.

Planning the audit is critical. The size of the site and complexity of plant and equipment is likely to be a significant factor in terms of the amount of planning required. However, regardless of the size of the organisation there are key considerations at the planning stage.

For example:



- Involve the workforce. Ensure that the workforce is fully briefed on the purpose of any audit and encourage them to become involved.
- · Remember that it is often the workforce who are the most informed
- Encouraging a 'just culture' will help you discover more actively encouraging your teams to share experiences of past 'near hits', whether previously reported or not, will likely yield many important insights on the effectiveness of the current procedures on site.

People are critical to the audit:

- Decide who will carry out the audit, it may be an individual or teams.
- Take time to brief them and train them if necessary.
- Check their competence and understanding of the process.
- Make time available to them.

There are a number of ways the audit can be carried out. The questions move through a logical sequence. There is also flexibility to split the task of auditing amongst members of a team with responsibilities for different areas of the site, for example. It doesn't matter how the audit is carried out or over how long a period, it is the rigour and integrity that matters. Remember contractors and external haulage drivers, they should be included in the audit process so that they can contribute their knowledge and understanding.

#### **Useful references**

Published by HSE, Managing for Health and Safety <u>HSG65</u>. Includes the widely recognised and used *PLAN, DO, CHECK, ACT* model to represent good management of Health and Safety. Checking or auditing plays an invaluable part in feedback to inform organisations of how deeply imbedded systems and procedures are in reality.

QNJAC have produced guidance notes and other supporting information that should be referenced when assessing the effectiveness of the controls at your sites: **A Guide to Pedestrian Safety in Quarries & Surface Mining (2017)** can be downloaded from <u>gnjac.co.uk</u>

The Mineral Products Association (MPA) have produced high quality guidance and supporting documents on the subject of vehicle and pedestrian segregation which has widely been accepted as good practice in the mineral products industry. Individual copies are available, and it is also available to download from <u>safequarry.com</u>.

The following checklist is based on a publication from the HSE - <u>Site inspection: Workplace transport</u> <u>checklist</u> and has been customised to increase its relevance to the typical circumstances found in mineral extraction and processing sites. It has been prepared as a guide to what operators should consider when trying to reduce the risk from vehicles in the workplace. It will not necessarily be comprehensive for *all* work situations.



#### Pedestrian Safety & Workplace Transport – Self Audit

Site / Organisation	
Audited By	
Date of Audit	
Date of review	

Question	Yes	No	Actions
Check, in consultation with your employees, that you	r level	of ma	nagement control/supervisio
S			
adequate			
Are site rules documented and distributed?			
Are your supervisors, drivers and others, including			
contractors and visiting drivers, aware of the site rules?			
Are they aware of their responsibilities in terms of			
helping to maintain a safe workplace and environment?			
Has a risk assessment been completed for all workplace			
transport hazards?			
Is the level of supervision sufficient to ensure that safe			
standards are maintained?			
Are sanctions applied when employees, contractors,			
etc., fail to maintain these standards?			
Are adequate steps taken to detect unsafe behaviour of			
drivers of both site and visiting vehicles as well as			
pedestrians?			
Are the underlying reasons investigated to correct			
unsafe behaviours?			
Is there good co-operation and liaison on health and			
safety matters between your staff and those who collect			
or deliver goods?			
Are 'near hits' involving vehicles and pedestrians			
routinely reported by site staff and visitors?			
Are <i>all</i> 'near hits' investigated and appropriate actions			
documented?			
Check what your drivers and other employees actual	v do w	hen u	ndertaking their work
activities	, 1		
Do drivers drive with care, e.g., use the correct routes,			
drive within the speed limits and follow any other site			
rules?			



Do your drivers and other employees have enough time			
to complete their work without rushing or working			
excessive hours?			
Are your employees using safe work practices, e.g.,			
when (un)coupling, (un)loading, securing loads, carrying			
out maintenance and inspections etc.?			
Do your employees and visitors <i>always</i> follow the			
designated pedestrian routes when moving about site?			
Do all site staff and visitors <i>always</i> follow the agreed			
communication protocols when moving about site eg.			
Announce themselves entering high risk areas and get			
verbal or visual acknowledgement every time?			
Do managers and supervisors routinely challenge and			
investigate unsafe behaviours they may come across?			
Do managers and supervisors <i>always</i> set a good			
example, for instance by obeying vehicle/pedestrian			
segregation instructions, and by wearing high visibility			
garments in line with site rules?			
2. SITE LAYOUT AND INTERNAL TRAFFIC R	OUTES	5	
Question	Yes	No	Actions
Check that the layout of routes is appropriate			
Are the roads and footways suitable for the types and			
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Are the roads and footways suitable for the types and volumes of vehicular traffic and pedestrian traffic using them?			
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Are they free from obstructions and other hazards?	<u> </u>	<u> </u>		
Are they well maintained?				
Do vehicle routes avoid sharp or blind bends?				
Check that suitable safety features are provided wher	e appr	opriat	e	
Are roadways marked where necessary, e.g. to indicate the right of way at road junctions?				
Are road signs, as used in the Highway code, installed where necessary?				
Are features such as fixed mirrors (to provide greater vision at blind bends), road humps (to reduce vehicle speeds), or barriers (to keep vehicles and pedestrians apart) provided where necessary?				
Check that pedestrian routes are fit for purpose				
Where physical barriers are installed, are they of the appropriate design relative to the volume, speed and type of traffic they are expected to segregate?				
Where edge protection bunding is installed on roadways is this to an agreed height and design appropriate to the size of the vehicles using the roadway?				
Do they have firm and even surfaces?				
Are they free from obstructions and other hazards?				
Are they well maintained?				
Do they have appropriate signage to direct pedestrians to their expected destination?				
Check that formal inspection procedures are in place				
Is there a regular inspection procedure in place to ensure that all the physical controls are still in place and are being adequately maintained?				
Is the site plan reviewed on a regular basis to ensure it is modified to reflect changes in the layout of stockpiles and other working areas?				
3. VEHICLE SELECTION & SUITABILITY				
Question	Yes	No	Actions	
Check that vehicles are safe and suitable for the work	for wl	hich th	ney are being used	



Have suitable vehicles and attachments been selected			
for the tasks which are actually undertaken?			
Do vehicles have good direct visibility or devices for			
improving vision where reversing can't be eliminated			
and where significant risk still remains eg external and			
side mirrors; vision aids such as CCTV; sensing			
devices?			
Are they provided with horns, lights, reflectors, reversing			
lights and other safety features as necessary?			
Do they have effective service and parking brakes?			
Do they have seatbelts where necessary?			
Are surfaces, where people walk on vehicles, slip			
resistant?			
Is there a safe means of access to and exit from, the cabs and other parts that need to be reached?			
Is driver protection against injury in the event of an			
overturn, and measures in place to prevent the driver			
being hit by falling objects, provided where necessary?			
Do drivers of site vehicles have a means to			
communicate with other vehicles on site eg. In cab			
radios?			
Are operators involved or consulted on vehicle			
selection?			
	<u> </u>		
4. VEHICLE MAINTENANCE			
4. VEHICLE MAINTENANCE Question	Yes	No	Actions
	Yes	No	Actions
Question	Yes	No	Actions
Question Check the level of vehicle maintenance is adequate	Yes	No	Actions
Question         Check the level of vehicle maintenance is adequate         Is there a regular preventative maintenance programme	Yes	No	Actions
Question         Check the level of vehicle maintenance is adequate         Is there a regular preventative maintenance programme for every vehicle, carried out at predetermined intervals	Yes	No	Actions
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Question         Check the level of vehicle maintenance is adequate       Is there a regular preventative maintenance programme for every vehicle, carried out at predetermined intervals of time or mileage? Eg in accordance with manufacturers Instructions         Is there a system for reporting faults on the vehicle and	Yes	No	Actions
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Question         Check the level of vehicle maintenance is adequate         Is there a regular preventative maintenance programme for every vehicle, carried out at predetermined intervals of time or mileage? Eg in accordance with manufacturers         Instructions         Is there a system for reporting faults on the vehicle and associated equipment and carrying out remedial work?         Is there evidence that defects, when reported, are rectified in an appropriate timescale?         Do the drivers carry out basic safety checks before using the vehicle?         Are vehicles parked in locations that allow the operator to safely and effectively conduct pre-start checks eg. Adequate space around machines, adequate lighting in times of darkness?         When inspections are carried out by operators, do they	Yes	No	Actions



Where vehicle attachments lift people or objects, are			
thorough examinations undertaken by a competent			
person (e.g. your insurance company)?			
5. VEHICLE MOVEMENTS			
Question	Yes	No	Actions
	100		Addolla
Check that the need for REVERSING is kept to a minir	num, a	and wł	nere reversing is necessary
that it is undertaken safely and in safe areas			
	r –	[	
Have drive-through, one-way systems been used,			
wherever possible to reduce the need for reversing?			
Where reversing areas are needed are they marked to			
be clear to both drivers and pedestrians?			
Are non-essential personnel excluded from areas where			
reversing occurs? If risk assessment shows site controls cannot be			
improved further and you need a banksman to direct reversing vehicles, are they adequately trained and			
visible?			
Are vehicle parking spaces designed to allow 'first move			
forward' wherever this is practicable?			
Are clear communication protocols in place and are they			
actively used to assist pedestrians and other vehicle			
operators to acknowledge presence in danger areas –			
eg. Visual and verbal communication			
Check that specific controls are in place for high risk	areas	of the	site eq. excavation areas
where heavy mobile plant may be operating in the sar			
Does the site have clear rules to define where small			
vehicles are permitted to operate?			
Have pedestrian exclusion zones been considered and			
implemented in high risk areas?			
Do clear communication protocols exist for drivers of			
small vehicles to warn other vehicles of their presence			
in the work area?			
Where small vehicles have to operate in the proximity of			
heavy plant are additional safety devices fitted such as			
flashing beacons and 'buggy whip' flags fitted and used			
as standard?			
Excavation and stockpile areas in minerals operations			
are often ever changing in terms of extent and layout.			
Does the site have a robust system to review and			
amend risk assessments and controls when changes			
are made?			
6. LOADING AND UNLOADING ACTIVITIES			
Question	Yes	No	Actions
	103		
	1	1	



Check that there are safe systems for LOADING and U	JNLOA	DING	operations			
Are loading/unloading operations carried out in an area away from passing traffic, pedestrians and others not involved in the loading/unloading operation?						
Are the load(s), the delivery vehicle(s) and the handling vehicle(s) compatible with each other?						
Are loading/unloading activities carried out on ground that is flat, firm and free from potholes?						
Are the vehicles braked and/or stabilised, as appropriate, to prevent unsafe movements during loading and unloading operations?						
Has the need for people to go on to the load area of the vehicle been eliminated where possible and if not is safe access provided and used?						
Is appropriate lifting equipment available for (un)loading vehicles?						
Is loading/unloading carried out so that, as far as possible, the load is spread evenly to avoid the vehicle or trailer becoming unstable?						
Do designated areas for tipping of incoming lorries have clearly defined exclusion zones for pedestrians and other vehicles?						
Are designated areas in place for drivers to tip off excess loads and are procedures in place to control this in the event of gross overloads that might impact the stability of the vehicle?						
Are safe areas provided for drivers to trim loads, sheet and un-sheet that are separated from passing traffic?						
Are checks made to ensure the load is adequately secured in line with the Department for Transport Code of Practice and not loaded beyond their capacity before the vehicle leaves the site?						
7. DRIVER COMPETENCE						
Question	Yes	No	Actions			
Check that your selection and training procedures ensure that your drivers and other employees are capable of performing their work activities safely and responsibly						
Do drivers possess the necessary licences or certificates for the vehicles they are authorised to drive e.g. Front end loaders, site dumpers etc.?						
Do you check the previous experience of your drivers and assess them to ensure they are competent before they are assigned to work unsupervised?						
Do you provide site specific training on how to perform the job, and information about particular hazards, speed limits, the appropriate parking and loading areas, etc.?						

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Do you have a planned programme of refresher training for drivers and others to ensure their continued competence?

# ALL 'NO' RESPONSES SHOULD BE ASSIGNED AN IMPROVEMENT ACTION. WHERE THIS IS NOT FELT POSSIBLE, THE ISSUE SHOULD BE ESCALATED TO THE SENIOR MANAGEMENT TEAM AND H&S SPECIALIST FOR FURTHER REVIEW.

\* 'Limited endorsement as HSE has contributed to the overall product, rather than leading its development.'