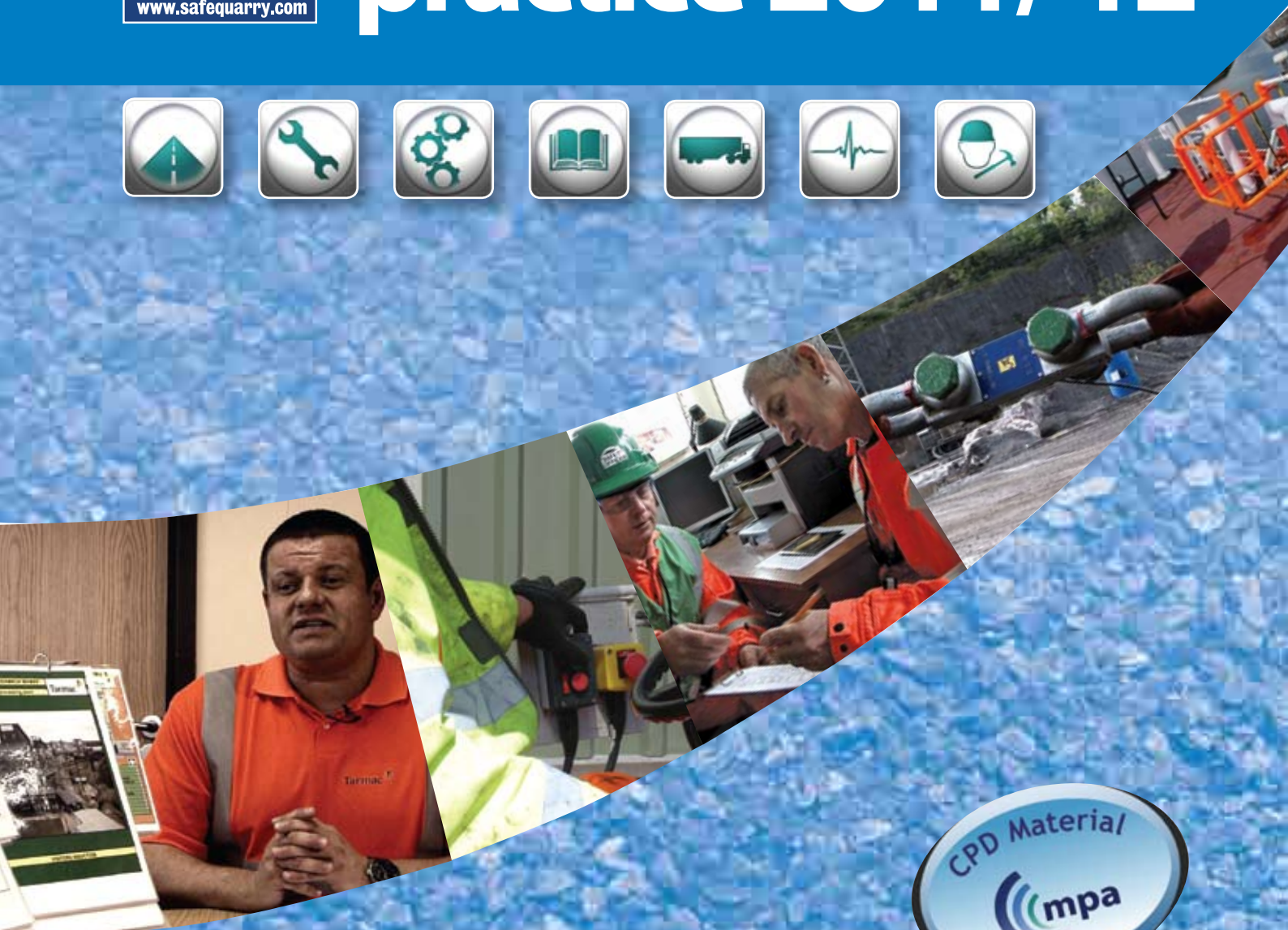




Sharing good practice 2011/12



ENTRIES FROM THE HEALTH AND SAFETY AWARDS

Health & Safety Awards





Lafarge is a world leader in construction materials.

We place innovation, safety and sustainability at the heart of our priorities. We are passionate about developing our people, providing solutions for our customers, and partnering with our communities in order to deliver lasting legacies for generations to come.

Our products and services are vital for building the infrastructure upon which we rely; our roads, schools, offices and hospitals. They include: rock, sand & gravel, recycled aggregates, innovative concretes and asphalts as well as road surfacing solutions and waste management services.

We are proud of our hands-on approach to safety which includes:

- Our senior managers committing over 10,000 hours a year to safety interactions on site
- Award winning safety initiatives across our Aggregates, Asphalt & Contracting, Cement and Readymix divisions
- A month each year dedicated to promoting health & safety initiatives around the world

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Foreword



Too often after an accident or incident the ensuing investigation will identify simple measures that if they had been adopted would have prevented the incident in the first place and, more importantly, its usually distressing aftermath.

If our industry is to achieve its target of Zero Harm - and I believe passionately that we can and will - it is important that we work together and share our resources and good practices. Above all, we must learn from each other. In this way we can all help prevent accidents and injuries to ourselves, our colleagues, our contractors and third parties.

With our target of Zero Harm as the number one priority and despite the challenging economic circumstances, MPA members met to share our very best working practices, initiatives and good ideas and so ensured yet another highly successful MPA Health & Safety Awards event. The short-listed entries summarised in this booklet can also be found online at <http://www.Safequarry.com>. By applying these examples of good practice and sharing them with your friends and colleagues you will be contributing directly to Target Zero, Zero Harm and - who knows - you just might help save someone's life.

Chris Leese
Chairman, MPA Health & Safety Committee
Vice-President, CEMEX UK



MPA H&S Conference & Awards, BAFTA, London, 15 November 2011



John Crabbe Memorial Trophy for outstanding excellence - J Wainwright & Co

Contributions from MPA members in 2011

Aggregate Industries UK Ltd	Lafarge Aggregates & Concrete Limited
Breedon Aggregates Scotland Limited	Lafarge Cement UK
Brett Group	Leiths (Scotland) Ltd
CEMEX UK Operations Ltd	Midlands Quarry Products
Colas Ltd	Shepperton Aggregates
CPI Mortars Limited	Sibelco UK Ltd
EPC UK	Singleton Birch Limited
Francis Flower	Smith and Sons (Bletchington) Ltd
S Grundon (Ewelme)	Steetley Dolomite Ltd
Hanson UK	Tarmac Limited
Hugh King & Co	Tarmac Marine Dredging
John Wainwright & Co Ltd	Tarmac National Contracting Ltd



Introduction

This guide summarises the best ideas and innovations from the MPA's *Health and Safety Awards 2011* that were featured at BAFTA, 195 Piccadilly, London W1, on 15 November 2011

Some of the entries are flagged to show that there is a video available - the videos can be viewed at www.safequarry.com. In addition to this year's entries, awards from previous years can also be accessed. The website features a database of incident alerts, toolbox talks and the latest on the industry's hot topics. By registering on the site, you will receive email alerts when new items are added and an "information basket" where you can store those that most interest you.

The resources are ideal for training purposes and for Continuing Professional Development (CPD). We hope that organisations of all sizes with an interest in quarrying and mineral products will find them useful and accessible. To ensure that your browsing on www.safequarry.com is recorded for CPD purposes, you do need to log in every time that you access the website.

How to use this guide


This guide is a compilation of solutions that MPA companies have applied to minimise and, where possible, eliminate health and safety risks arising from their daily operations. The ideas and innovative approaches are often very simple and inexpensive and could readily be applied to a range of common industry problems.

It is hoped that by reviewing this guide, particularly those sections relating to your main area of work, you will recognise solutions that could be applied within your own workplace or that will generate an idea for an alternative solution.

The guide has been divided into seven sections to reflect the categories used in the MPA awards. They focus on those areas that have the most impact on improving health & safety in the work place. We have indicated which entries were prize winners, and which have video clips available. To help you locate entries relating to a certain subject, we have provided a keyword index. If you would like more information on an entry than that available via www.safequarry.com, please send an e-mail to info@safequarry.com quoting the entry number which is located immediately to the left of the entry title.

The sharing of best practice is crucial in helping the industry to achieve target zero.

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	Contractors Safety 4		Occupational Good Health 17
	Engineering Initiatives 6		Worker Involvement 19
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12 Bitumen weigh kettle, safe working capacity ultimate cut-off Aggregate Industries UK Ltd > Halton East Works



DESCRIPTION

In spite of a wide range of initiatives to avert bitumen spillages at Halton East asphalt plant, spillages from the bitumen kettle were still being experienced. To eliminate this risk, a very simple float limit system has been fitted within the bitumen weigh kettle. The float limit system ensures that all the bitumen pumps are switched off when the limit is reached. This prevents any possibility of a bitumen spillage even if other safety devices have failed, are incorrectly calibrated or a valve has jammed.

BENEFITS

- Eliminated spillages from the bitumen kettle
- Significantly reduced the risk of injury

- No further calibrations are required
- Very simple to carry out a daily check
- Operates independently of all other safety controls.



126 New access hatches within the hot stone bins reduce risk John Wainwright & Co Ltd > Moons Hill Quarry



DESCRIPTION

The asphalt plant had a top access door to each of its seven hot stone bins. Maintenance work within the bins was difficult because of the restrictive work area and single access route. A series of inter-connecting access hatches was created within each hot stone bin wall so that maintenance crews could access a bin from both sides. In addition, if they need to work in any other bin, they can now easily do so, without having to repeatedly climb in and out of the top access door.

BENEFITS

- Improved working environment
- Reduced risk of falls and working in confined spaces
- Significantly improved emergency evacuation procedures.

5 Safety improvements to bitumen plant Aggregate Industries UK Ltd > Back Lane Quarry



DESCRIPTION

Aggregate Industries undertook a complete overhaul of the bitumen delivery system and associated safety measures at their Carnforth plant. The changes made and new systems introduced have significantly reduced the potential for accidents.

BENEFITS

- No accidental entry into the danger zone by pedestrians
- Staff are aware the instant a high level alarm or emergency shower is activated.
- No more compressed air deliveries
- Tanker drivers have greater clarity on delivery points and safety procedures
- Reduced chance of a kettle overflow
- Reduced chance of blockages due to failed trace heating

- Eliminated risk of an overspill when more than one tank is being filled.



Bitumen lines - before



After



Tanker discharge light



Shower alarm lights



101 Precision GPS equipment improves H&S on construction sites Lafarge Aggregates and Concrete UK > Lafarge Contracting

DESCRIPTION

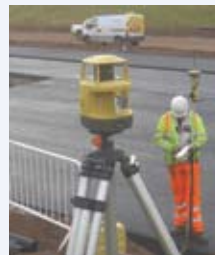
Lafarge Contracting recognised the potential hazards created by the traditional method of surveyors marking out sites with pins and lines to help asphalt laying gangs lay to the right level and in the correct location.

They introduced a GPS based system that has significantly improved the setting out process and reduced the potential for health and safety injuries. The GPS equipment is pre-programmed with required levels and these can be checked 'live' against the laid material. The process allows adjustments to be made without the need for pins or lines.

BENEFITS FOLLOWING INTRODUCTION

- Removes risk of tripping, impalement and other injuries associated with pin and line
- Removes the need for prolonged bending to take measurements

- Removes the need to cross live traffic when checking levels
- Improvements in the accuracy and speed at which the levels and locations are checked
- Improved data collection and record keeping
- Improved productivity
- Reduced stress on the construction site.



Data from mobile device is communicated via the total station system on site



Operatives check levels and record data on the newly laid pavement without having to bend down



73 Proactive management of ship repair contractors during dredger planned maintenance

Tarmac Limited > Tarmac Marine Dredging



DESCRIPTION

The management of contractors is a major challenge for Tarmac Marine Dredging Ltd (TMD) particularly during the annual scheduled maintenance stop when there can be circa 40 contractors and the crew on board. The work programme is complex and often involves tasks being undertaken in a confined space with a range of inherent risks.

In response to this, TMD has instituted a wide range of measures to ensure high standards of safety are set and maintained. The measures include:

- A visit by SHE advisor to potential repair contractors during selection process
- Contractors arriving on board for the first time are taken through a structured induction process which includes TMD's Golden Rules. Their understanding is tested as part of the process.

BENEFITS

- Improved safety performance of contractors and repair yard staff
- A positive and partnership approach to safety for all involved
- Since 2009, TMD has recorded 80,000 contractor hours without a contractor LTI.
- TMD's last employee LTI occurred in March 2009.



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64 **Managing major cement plant shutdown with 20 contracting companies** Tarmac Limited > Buxton Lime & Cement



DESCRIPTION

Tunstead cement plant undertakes an annual maintenance shutdown lasting about a month. Over 200 contractors employing a range of specialist skills are used during the shutdown.

In 2011, a more holistic approach was adopted to improve the safety standards during the shutdown. Planning commenced seven months prior to the shutdown. The range of initiatives included:

- Reviewing all contractor risk assessments and method statements
- Site and task specific inductions for all contractors utilising a competency assessment so that no contractor would

be allocated work where he or she had no demonstrable competence.

BENEFITS

- Consistent and highly visible (on contractor database) standard of contractor induction
- No significant conflict with contractors – the project progressed smoothly and without incident
- Contractors could be matched to tasks by the use of the competency matrix
- No lost time injuries.

27 **Control of contractors**

Brett Landscaping and Building Products > National Initiative



DESCRIPTION

Brett recognised that the incident rate for contractors being injured was much higher than that of Brett employees. To improve contractor safety they developed a four pronged approach:

- Selecting and pre-authorising contractors
- Ensuring induction on site and awareness of risks

- Managing contractors on site
- Reviewing their performance once the task is complete

BENEFITS

- A dramatic improvement in the incidence rate involving contractors.

82 **Occupational health partnership with major contractors** Hanson UK > Hanson Cement Operations



DESCRIPTION

Hanson Cement introduced a range of initiatives to assist the shutdown contract companies to improve their occupational health programs for their employees. The steps taken cover a wide range of occupational health risks such as exposures to welding fumes within enclosed spaces; hand arm vibration exposures and musculoskeletal stresses. The process involved the introduction of dust monitoring, training, reviews of contractors COSHH, building the trust of contractors and investment in plant improvements and safety devices. Please see www.safequarry.com for more information.

- Selecting and pre-authorising contractors
- Ensuring induction on site and awareness of risks
- Managing contractors on site
- Reviewing their performance once the task is complete

BENEFITS

- Contractors have new knowledge about risks

- Contractors better understand the safety precautions to protect themselves
- Safer working environment for contractors and Hanson employees
- Detailed exposure data on the airborne concentrations of welding and burning fumes
- Ability to assess the effectiveness of the LEV and to verify PPE requirements
- Identified weakness in contractors' knowledge that can be rectified with training
- Provided free health screening to contractors during the pilot project at Ribblesdale
- Introduced range of plant changes that have reduced exposures to O&H risks
- Industry has benefitted from Hanson sharing knowledge and using safer contractors.



68 **Conforming isolators - dead or alive - there's no second chance** Singleton Birch Ltd > Melton Ross Quarries



DESCRIPTION

Following an incident involving a primary crusher and a faulty isolator handle connecting shaft, Singleton Birch conducted a review of their isolation and lock-off procedures.

The outcome was the "Singleton Birch Specification and Use of Conforming Isolators /Switch Disconnectors for Isolating Electrically Powered Plant Machinery and Equipment"

Please see www.safequarry.com for more detailed information and to view the video.

BENEFITS

- Isolation facilities and isolation/lock-off equipment are compatible
- Equipment is consistent with the documentation of the isolation and lock-off procedure
- Clearly labelled electrical equipment, isolators and emergency stops identifiable by their relationship to each other
- Control devices are not used as isolators
- Emergency stops in close proximity to isolators and drives ensures that the current can be safely interrupted under all conditions
- The system of isolation is constantly monitored
- Close supervision and regular reviews are carried out with input from workers.

44 **New tool to remove drive chamber insert from mortar plant**

CPI Mortars Ltd > Gartsherrie Industrial Estate



DESCRIPTION

The removal of the dry chamber insert, which is the metal disk at the end of the chamber of a dry mortar mixing unit, took engineers around ten minutes. The task required the use of a hammer and nail to free the insert. This was very strenuous, time consuming and resulted in a near miss.

Following this incident, a tool was developed by one of the engineers - a dry chamber insert extracting tool. The tool is simple to use and eliminates the need for any other tools. Utilising the motor of the silo, the insert can be removed in under a minute.

BENEFITS

- The new system significantly reduces maintenance time and eliminates a potentially hazardous job.



Top - old method
Below - new method with new tool
Left - the new tool

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81 Tackling the root causes of silo over fill

Hanson UK > Hanson Cement Distribution



DESCRIPTION

Hanson undertook a root cause analysis of bulk delivery practices. It identified that both their pricing structure and the delivery service to customers were encouraging customers with limited silo storage, to over order and subsequently, ignore over fill alarms.

Offering part deliveries was a potential solution to this issue. To facilitate this Hanson, in conjunction with a supplier, developed a system that accurately weighs



part deliveries in real time. The weighing system can be operated by the driver using a remote, hand held device. This device combined with a new pricing structure, has enabled them to offer clients with smaller silos, part deliveries and to introduce a milk round delivery service.

BENEFITS

- Improved the service to the customers with small silos
- Removed the incentives for customers to take risks over ordering cement
- Reduced the potential for fatal incidents from over filling silos
- Improved the overall quality of Hanson's delivery service and enhanced efficiency.

97 Weight strain gauge for pulling tasks

Hanson UK > Hanson Aggregates, Tytherington Quarry



DESCRIPTION

The weight strain gauge is a simple piece of equipment which prevents the potential for ropes and chains to snap when pulling heavy objects. The gauge gives a continuous remote reading of the weight being pulled. The operation can be stopped before the line fails. The gauge will weigh up to 10 tonnes and can also be used to test the weight of objects before starting a task.

BENEFITS

- The gauge has removed the risks associated with pulling and lifting tasks
- The operation can be monitored from a safe distance of up to 200m, via the remote pad

- The operator has the time to stop a task if anything does start to go wrong.



3 Construction of a pre-cast section arch at the inlet of a kiln

Lafarge Cement UK Ltd > Aberthaw Works



DESCRIPTION

Aberthaw Works has developed a new methodology to replace the arch at the inlet of their kiln. The system uses pre-cast sections which are manufactured in a controlled environment and cured in a furnace at the recommended temperature. Bolted anchors are placed in the sections before casting, and these are used to install the arch.

BENEFITS

- The sections are of a consistent quality, longer lasting and far less prone to failure
- It removes hazards previously associated with welding and subsequent weld failures

- Operation is a lot quicker minimising exposure to this harsh environment
- The use of vibratory equipment and a jack has been eliminated



Hanging system: 2 bolts inserted into the block



38 Electric winch improvements aid safe operation of tugs & barges **CEMEX UK > Attenborough Quarry**



DESCRIPTION

Quarried mineral is transported via tug and barge over a four mile stretch of water to the plant for processing. Historically, tugs have been attached to barges with wire ropes, tensioned by manual winches which can need adjustment or re-tensioning five or six times a trip. This involves the operator leaving his cab, walking a narrow walkway to the front of the tug, and manually winding a winch. CEMEX have introduced an electric winch that can be operated from within the tug.

BENEFITS

- The operation is more efficient and manoeuvrability is improved
- Removal of RSI issues and manual handling risks
- Operators can remain safely in their cabs

- In an emergency, the operator can safely disconnect the tug from the barge.



Top: before - the old system

106 Safe bung removal from blocked sand pumps **Lafarge Aggregates & Concrete UK > West Deeping Quarry**



DESCRIPTION

A site operative received burns to both arms when he was hit by hot, sand laden water ejected from a Linatex sand pump whilst attempting to remove the bung.

This is a recognised issue with Linatex pumps following a blockage - all pumps should have warning stickers displayed about this potential hazard.

A pressure relief system has now been installed which keeps the operator at a safe distance. It consists of a protective cowl and bung withdrawal mechanism. This also enables the operator to

check the pump for any potential signs of blockage or pressure build up within the pump or feeding pipeline.

BENEFITS

- An operator is able to drain a pump down at a safe distance
- The risk of injury has been minimised
- A simple design that can be easily adapted for other sites.



32 Fall prevention - safer access/egress from top of fixed ladders **CEMEX UK > Marine**



DESCRIPTION

On ships it is common for either chains with karabiners or bars and gates to be fitted at the top of ladders to prevent falls. The person using the ladder has to unhook or open these devices by taking one hand off the provided handrail/stanchion whilst holding on with the other hand. During this procedure, the person could lose control and fall to the deck below.

CEMEX UK Marine Operations have changed this so that the person using the ladder can now climb onto a stable platform before having to take a hand off the handrail to open the gate. This ensures that the person maintains contact at the critical stage at the top of the ladder.

BENEFITS

- Reduces the risk of falling from height whilst using a fixed ladder
- The modification can be applied across all industries.

Previous fall protection



New fall protection



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111 Mechanical chute closing device

Francis Flower > Guerney Slade

DESCRIPTION

Altering the flow of material through a feed chute involved an individual trying to manipulate a steel plate located eight feet off the ground. The operation was undertaken several times a day. It was a very strenuous activity sometimes requiring a sledge hammer. It was undertaken in a poorly lit, noisy and cramped space with the potential for a fall.

The plant fitter designed, fabricated and installed a system that replaced the steel plate with a cut off slide that can be slid in and out by the use of a chain pulley system operated from ground level.

BENEFITS

- The feed control adjustments can be made quickly and accurately
- There is no manual handling
- The risk of a fall has been removed.



26 Jump starting made safer Shepperton Aggregates > Shepperton Quarry

DESCRIPTION

No-one wants to jump start equipment but sometimes it is necessary. The staff at Shepperton recognised this as a relatively high risk task. Following research into the issue, they fitted 'ports' so that machines could be jump started in safety.

The ports are located on the outside of all machines. They allow one machine to be directly connected to another without having to make a direct connection to the batteries, removing the potential for a spark to ignite gasses from the battery and cause an explosion.

BENEFITS

- The potential for an explosion is eliminated
- Reduced musculo-skeletal risks as the terminals are on the exterior of all machines
- This idea has been taken up across Brett Group.



Above: Jump start point
Below: Jump start machine



86 Improving fork-lift driver visibility

Hanson UK > Hanson Cement Packed Products, Bulls Lodge

DESCRIPTION

Hanson UK has introduced a number of measures to improve safety for forklift truck drivers which include:

- Specially designed long-drop forks which raise the carriage body to significantly improve visibility
- The introduction of LED lighting and a fluorescent flag for improved visibility
- Keypad ignition and disabling seat belt software for continuous driver controls
- A complete review of traffic management systems with the objective of placing all pedestrians behind physical barriers.

BENEFITS

- Forklift truck related incidents have fallen
- Raised awareness of forklift truck safety in our workplace
- The new specification could set an industry standard
- A complete rollout across the whole of the division is planned.

Before . . .



After



10 Easy access stop/start and emergency stop control panel on bagging hopper

Aggregate Industries UK Ltd > Marybank Quarry

DESCRIPTION

Previously, the bagging operation involved the forklift truck operative dismounting at the bagging hopper to press the start and stop button.

An adjustable lever arm was fitted to the hopper frame with a control pad containing three buttons; start, stop and emergency stop. This allows the driver to operate the bagging hopper whilst remaining in his cab. He is able to adjust the position of the

control pad to suit him before commencing the filling of bags. The lever arm swings to allow the position of the control panel to be adjusted for both width – to suit a variety of forklift trucks - and the distance the forklift is away from the hopper.

BENEFITS

- Reduced risk from slips, trips and falls
- A more efficient and safer operation.



Above: New control pad



Right: New lever arm in operation

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35 Safety videos

CEMEX UK > National Initiative



DESCRIPTION

CEMEX UK developed a series of three training films to raise awareness amongst employees and contractors of some of the most common causes of injury. The films feature cartoon characters who, with an appropriate use of humour, demonstrate the wrong way of undertaking tasks followed by real life footage of the correct behaviours.



The three films currently produced are:

Lock Out, Tag Out Safe Driving Slips, Trips and Falls

BENEFITS

- The resources are relevant to the workforce
- Employees were involved in their production
- Visuals increase knowledge retention
- Increased awareness of key safety issues
- Videos can be used where language is a barrier
- High calibre training materials for CEMEX and the wider industry
- Tailored to relevant working conditions and industry practices
- Improved training experience.

78 Safe maintenance through competency

Tarmac Limited > West Region



DESCRIPTION

Tarmac identified that 61% of its maintenance injuries involved the use of small tools and equipment. It took the following action to improve the competency of its maintenance teams:

1. Set up a bi-annual assessment of maintenance employees' competency, identifying gaps and creating an individual performance development plan
2. Established Maintenance Section Leaders (MSL) Forums. These meet four times a year to share best practice, discuss common issues and agree key messages and maintenance strategies for the future
3. Developed a detailed Toolbox Talk for the maintenance teams titled 'Safe to be a Fitter'
4. Introduced a maintenance management system to remove the risk from unplanned breakdowns.

BENEFITS

- Reduction in Lost Time, and Non Lost Time Injuries and the associated costs
- Reduction in the number of categories of maintenance related injuries
- All maintenance staff now have a personal development plan
- A proactive and engaged team - MSL

- Development of the 'Safe to be a Fitter' Toolbox Talk by the MSL
- Improved plant availability leading to reduced complaints and wastage
- Improved spares management
- Recognition by the European Agency for Health and Safety - European Good Practice Awards 2010.





112 Development strategy to change safety culture at Thrislington Works

Steeley Dolomite Ltd > Thrislington Works



DESCRIPTION

A continuous improvement strategy was introduced using multidisciplinary teams based around the four shifts at Thrislington works. Each team was asked to produce measurable and visible improvements across a range of activities including health and safety. Fundamental to this approach was increasing co-operation and encouraging best practice benchmarking between each team. The process involved:

- A management presentation to the teams outlining their purpose
- Allocating the teams responsibility for good housekeeping on specific areas of the site

- Ensuring that the teams had the resources to address H&S issues
- Monthly review meetings of progress and future initiatives
- Re-allocating activities for other teams to action when appropriate
- Photographic evidence of changes and displaying team objectives on notice boards.

BENEFITS

- Significant improvements achieved and recognised by third parties
- Visual improvement to the site.

11 Isolation & lock off training package

Aggregate Industries UK Ltd > Torr Works Quarry



DESCRIPTION

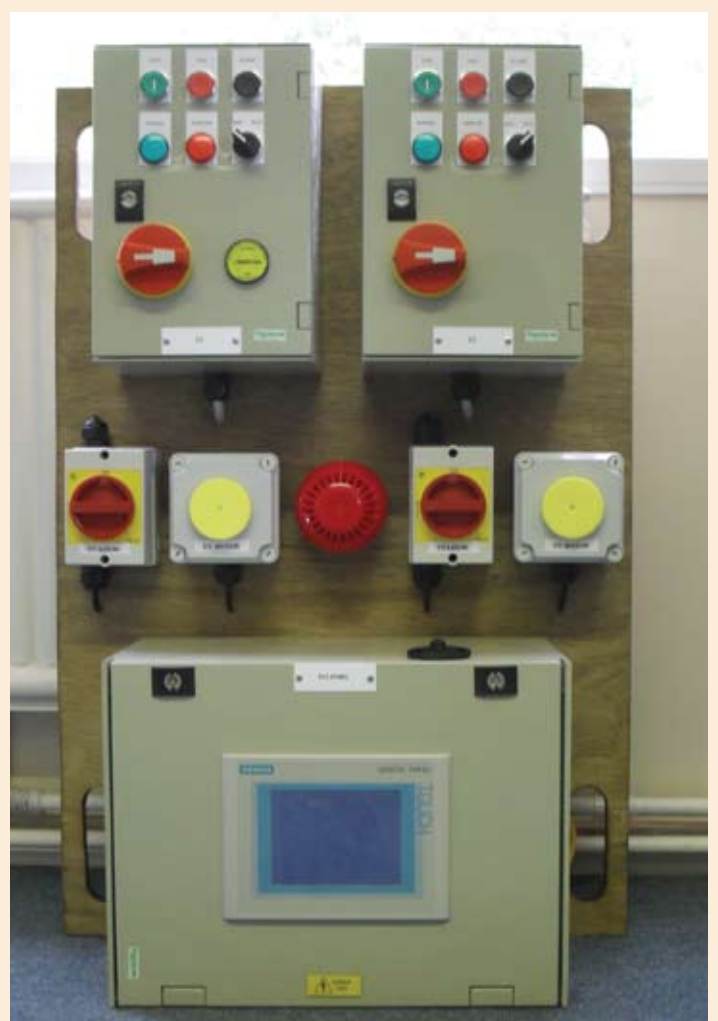
A training and assessment package was developed to assist Isolation Controllers with the implementation and understanding of the company's 'Isolation and Lock Off' guidance document.

The training package consists of a theory based presentation, along with practical demonstrations and simulations of the various faults which can occur. A simulation rig, which was built in-house, is used to illustrate the topics covered in the training.

The final part of the training package consists of a written and practical assessment.

BENEFITS

- Awareness and understanding raised of the hazards, dangers and limitations which are associated with Isolation, Lock off and Test & Try
- Individuals who required further training were identified
- Re-assessment of the candidates is possible as different faults can be simulated
- The rig has transformed the ability to train in a controlled environment.



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67 Developing externally recognised in-house training

Breedon Aggregates Scotland Limited > National Initiative

DESCRIPTION

Breedon Aggregates have developed their own tailor made training course, the foundation of which is health and safety.

The starter course is based around 22 toolbox talks and involves participants in Q&A sessions. The talks are available in user friendly manuals. Following this course, candidates are assessed on-site on three separate occasions. Finally, they are subject to 25 random questions on which they must achieve a minimum 80% score. Candidates can progress from this foundation course to a more task specific or foreman courses.

The courses have now been accredited by the Scottish Qualifications Authority and been recognised by the Construction Skills Certification Scheme.

BENEFITS

- A happier, safer and more competent workforce
- The training satisfies the MPA Safer by Competence policy for contractors
- Operatives have "bought in" to scheme – many achieving 100% scores
- Progressive and measurable programme of training in place
- Ability to carry out in-house accredited training.

31 Competency assessment process

Brett Aggregates > National Initiative

DESCRIPTION

Brett Aggregates decided that all of their process and plant operators should be assessed against a competency matrix which detailed 90+ potential competencies and associated management system requirements.

A fundamental part of the assessment included gaining an NVQ in the appropriate discipline. Mentors, who had already passed through the NVQ process themselves, were appointed in each operational area to provide support.

BENEFITS

- All operational staff have been assessed and have gained an appropriate NVQ
- SHE competencies have been highlighted and awareness raised across Brett Aggregates
- Improved training experience and increased recall from delegates.

102 Empowerment by employee involvement training

Lafarge Aggregates and Concrete UK > National Initiative

DESCRIPTION

Lafarge identified that not all employees and permanent contractors had the confidence or felt empowered to address health and safety issues at work.

To address this, a three hour, interactive workshop was targeted at non-managerial grades. It was delivered to over 1200 people over a three month period.

Its aims were to ensure participants:

- Understood the need to get involved with safety
- Recognised that safety is the number one priority
- Understood the key H&S activities that needed their involvement
- Identified specific ways in which they would get more involved in safety

- Understood their managers' and H&S professionals' commitment to safety policies
- Identified any barriers preventing them from getting more involved in safety
- Identified opportunities for Lafarge to improve its method of involving employees and contractors.

BENEFITS

- Improvement in employee participation and pro-active involvement
- Increased requests for further training in RA /SSOW
- Employees willing to call "Time Out" and stop work on safety grounds
- Helped HSQE advisors to give feedback and support local management teams.



69 Management of change – ensuring physical/ administrative changes are risk assessed before implementation Singleton Birch Ltd > Melton Ross Quarry

DESCRIPTION

Singleton Birch had experienced several incidents where changes made to plant or a process had led to potentially unsafe conditions.

A 'Management of Change Process' was introduced. This was a structured process to ensure correct evaluation and management of risks to plant and personnel under change conditions.

All affected stakeholders are kept in the loop with any changes that are being managed. The process is to evaluate and properly manage any modifications to the design, control or operations of our total process.

BENEFITS

- Consistent reporting and recording of changes on the management system
- Underpins the future health and safety, reliability and integrity of the plant
- Ensures that no unintended hazards are introduced
- Risks are properly evaluated and minimised
- All systems and procedures are kept up to date in line with the change
- Health and safety is paramount in all changes to equipment and processes
- Personnel are kept informed in all the key steps of the change process.

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96 Truck mixer/plant wash system



Hanson UK Limited > Hanson Concrete

DESCRIPTION

Hanson has introduced a system to clean mixer trucks that eliminates the need to use acid and is both easy to manage and safe. It can also be used to clean production plants.

The truck mixer wash system comes with two lances that have 50 metre recoil hoses, one for spraying a foam chemical over the truck and the other for washing the truck down. The system is token operated.

BENEFITS

- Fewer injuries and reduced risk
- No more hydrochloric acid used or stored on sites
- Simple cleaning method, faster and more effective
- The chemical is not corrosive and can be used on a range of surfaces

- Token operated system allows management to organise and monitor usage
- Cleaner trucks reflect a clean company image
- The trucks look better for longer, sustaining the life span of the trucks.
- The wash system can be used for general cleaning in the plant
- No more environmental issues from acid leakage.



91 Automatic release agent spray system for haulier's vehicles



Tarmac Limited North & Scotland Region > Hillwood Quarry

DESCRIPTION

Significant hazards arise from drivers climbing into the bodies of HGVs to remove coated material sticking to the floor.

Tarmac has designed and installed an automated release agent spray system on its coating plant at Hillwood. Spray bars under each of the four load-out bins are activated by a magic eye as a vehicle drives underneath them prior to being loaded. The amount of release agent sprayed into the truck body is determined by the time taken for the truck to pass the magic eye.

BENEFITS

- All drivers now remain in their cabs - warm, dry and safe
- Risks from manual handling, slips, trips, falls and mobile plant movements are reduced
- Contamination risks from the addition of uncoated sand or dust are removed
- The time a haulier spends on site has been reduced
- Risk of material sticking to the truck body is reduced.





20 'Mobileye' collision prevention system

Colas Limited > Warrington Distribution



DESCRIPTION

Colas has installed a collision prevention system. 'Mobileye' operates using unique computer vision based technology to detect vehicles and lane markings. The driver receives both visual and audible alerts if the vehicle deviates from the lane or comes too close to the vehicle in front. The system also gives the driver a distinct forward impact warning. The latest 'Mobileye' system also has pedestrian and cyclist warnings.

BENEFITS

- Reduces the risk of accidents, serious injury or death
- Reduces costs related to incidents, driver down time and personal injury claims
- Helps the company and drivers manage their duty of care to others
- Helps drivers develop safer driving techniques

- Positive driver feedback
- Better safety performance when benchmarked against industry standards
- Gold and Highly Commended RoSPA awards for Managing Occupational Road Risk
- Intention to link the system to onboard telematics to identify drivers with excessive alerts.



65 Installation of pressurised lorry washout

Tarmac Limited > Buxton Lime & Cement

DESCRIPTION

Tunstead cement plant imports a variety of bulk materials. The vehicles are often used to backhaul crushed limestone which requires the complete removal of any residue to avoid product contamination.

Recognising the inherent hazards associated with removing residue, a monitor and high pressure water jet have been mounted on a gantry located above the washout area. The installation avoids drivers having to enter the lorry body, eliminating the risk

of falling and of manual handling injury while physically removing residue. Material is removed quickly using high pressure water.

BENEFITS

- Avoids risk of injury during access or egress
- Avoids risk of manual handling injuries whilst physically sweeping or digging out residue
- Improved turn round time for vehicles.

127 Access platform for collect customers using smaller HGVs

Aggregate Industries UK Ltd > Express Asphalt, Darlaston

DESCRIPTION

Express Asphalt, Darlaston have developed and installed an access platform to help collect customers to safely access and work on the back of their vehicles.

- The platform sides extend to meet the sides of the vehicles hydraulically
- A rear gate encloses the back of the vehicle
- The gate height is designed to avoid the need to unhitch a roller trailer
- A fast fill water system reduces manual handling risks
- Traffic light systems linked to magic eyes assist in vehicle positioning and traffic management

- Pressure sensors on the extending platforms prevent crush injury and vehicle damage
- Full interlock is installed on the gates
- Located in an area with no other traffic and where no reversing will be required.

BENEFITS

- Avoids access and egress risks
- Provides safe service to customers.



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99 In control of your own destiny



Lafarge Aggregates & Concrete UK > National Initiative

DESCRIPTION

Lafarge is committed to increasing awareness of the risks associated with the inhalation of dust and to promoting good control practises.

A DVD was produced which is based around the story of 'The Lamberts' - Harold Lambert, sons Michael and Andrew and their two sons, all employees at Lafarge. Sadly, Harold died shortly before filming. The DVD is his story and shows the consequences of inadequate dust control and what Lafarge is doing to address this.

The DVD highlights the systems in place and the importance of staff maintaining and using the control measures provided, the

message is - 'You control your own destiny'.

The DVD was shown to all employees at their annual conference where the theme was:

'It's not what you can see, it's what you can't see that will hurt you!'

BENEFITS

- Raised awareness of dust and how to manage it with every UK employee
- Created a powerful resource to which employees could easily relate
- The DVD will be used worldwide with Lafarge staff.

51 Men's health campaign



Colas Limited > National Initiative

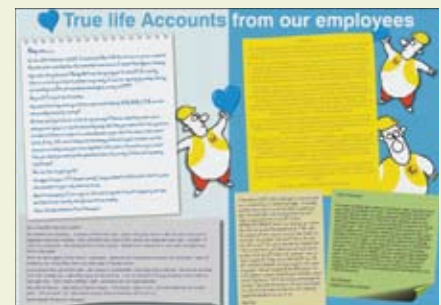
DESCRIPTION

As an employer of 1400 men, Colas has run a Mens' Health Campaign over the last three years. This includes:

- A company-wide poster campaign
- A Men's Health newsletter with features about employees' personal experiences of health issues both to raise awareness and to help them realise it could happen to them.
- Men's health included in the company's bespoke safety awareness training course
- Participated in the "Know your Numbers" campaign involving staff having their blood pressure tested

BENEFITS

- Enhanced awareness of health issues within the company
- Employees identifying and treating health issues such as high blood pressure that might previously have remained unidentified.



25 Health, fitness and well being 'On-Board'



CEMEX UK > Marine

DESCRIPTION

Building on a previous programme 'Health Essentials', CEMEX Marine ran a new campaign 'Stay Healthy, Healthy Hints'.

This focused on promoting and improving both the day to day and long term general fitness of the workforce. It included investment in low impact exercise equipment such as treadmills and cross trainers.

The aim was to help improve the general fitness and moral of employees and contractors who work, sail and live on board ship for three to six week periods.

BENEFITS

- Improved fitness of employees and contractors working on board ship
- Improved moral of employees and contractors
- Reinforced CEMEX commitment to looking after their health and well being
- Created an area where the crew could get away from the normally restricted life on board.



110 Reducing respirable dust

Francis Flower > Gurney Slade

DESCRIPTION

Francis Flower mills and grinds mineral powders. It reviewed its operation and identified the main sources of respirable dust, fumes and harmful skin contact. In consultation with staff, they focussed on improving five areas:

BAGGING BURNT LIME - Bagging moved to ground level using an extended chute

BAGGING OPERATION - New dust extraction unit fitted

TANKER LOADING - Negative pressure system and new additive delivery system installed

FIXED PLANT WORKSHOP - New extraction system to remove fumes and dust particles

HOUSEKEEPING ACTIVITIES - A large industrial vacuum system for internal use and a tractor attachment to sweep the outside areas were purchased.

BENEFITS

- Dramatic impact on the business and staff motivation
- Reduction of dust at source
- On-going and significant improvements in the working environment

- Reduced manual handling, working at height and risk of slips, trips and falls
- Significant improvements in production efficiency
- Housekeeping standards improved beyond measure
- Maintenance improved leading to less plant downtime.

Below: Tanker loading system



83 Safety measures for use of vibrating hand tools

Hanson UK > National Initiative

DESCRIPTION

Hanson introduced a number of measures to ensure the safe use of vibrating hand tools in its contracting division and to eliminate hand arm vibration syndrome (HAVS). All vibrating tools and their outputs were surveyed. Older tools were replaced, as were tools with high magnitude exposure levels. New tools were purchased which minimised exposure to HAV. A chart was designed which shows accurate 'real life' HAV exposure levels. Tools are now re-tested regularly and replaced if their damping characteristics are degraded. Further monitoring of HAV exposure is being carried out using a HAVIMETER.

Other measures include using:

- Carriage carts for the petrol Stihl type saws
- JCB2CX Streetmasters fitted with hydraulic hammers and rear mounted backhoe hammers
- Compactor plates fitted with low vibration handles

BENEFITS

- Formulation of a long term action plan engaged the workforce
- Validated by the HSE as an approved methodology
- Significant reduction in exposure of operatives to high magnitude tooling
- Accurate measurement of HAV exposure using the HAVIMETER and the points calculator system.

Below: All road maintenance gangs have been issued with JCB 2CX Streetmasters which eliminate the use of high magnitude road breakers



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34 Musculo-skeletal risk minimisation

Brett Aggregates > Lydd Quarry

DESCRIPTION

During a risk assessment review at Lydd, musculo-skeletal risks were scored as high. The team identified moving lubricants into the store and moving gas bottles on-site as the highest risk activities.

Following a review, the lubricant requirement was consolidated into three main types which then justified these being delivered in bulk. New storage tanks were installed allowing bulk tanker deliveries directly into the storage tanks. The lubricant is dispensed from outside the store.

A special cage was fabricated that enabled gas bottles to be safely moved around the site by a telehandler.

BENEFITS

- The risk to musculo-skeletal health has been significantly reduced
- Awareness of musculo-skeletal risks has been raised
- The project has reinforced already high SHE behaviours at Lydd.



Above: Oil store

63 Workforce safety engagement workshops

Sibelco UK Ltd > National Initiative



DESCRIPTION

Operatives and supervisors attended a workshop, facilitated by the company's Operations Directors, where they were asked to give their honest opinions on health and safety. Sibelco was concerned by feedback from some employees that, whatever managers said about the company's commitment to health and safety, in reality they felt production came first.

Further workshops resulted in a wide range of initiatives to ensure that Sibelco's commitment to health and safety was clearly communicated and implemented throughout the organisation.

They included:

- Consultation and agreement on the company's Health and Safety Action Plan, which focuses on employee involvement, leadership and mutual support
- A Health and Safety Promise that employees will not be disciplined for refusing to carry out work which they believe to be unsafe

- A Safety Credo which emphasises the company's goals of a workplace where nobody gets hurt – 'zero harm'.

BENEFITS

- Positive feedback has been received from employee representatives
- The profile of the company's H&S Action Plan has been raised
- Barriers to communication have been overcome
- UK Executive Directors get involved in the detail on a day to day basis.



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72 Solving tough safety issues by greater worker involvement Tarmac Limited > South East Region



DESCRIPTION

The South East Region of Tarmac asked a cross-section of people in the business to get involved in reviewing a variety of safety issues at a number of different sites. Involving people who know what's really going on has delivered significantly better results than the traditional management-led approach. Below are three examples of the outcomes. A fuller report is available via www.safequarry.com

CONTRACTOR INDUCTIONS - A plant supervisor taking personal responsibility for raising the standard of contractor inductions, making it more user-friendly, and sharing best practice with his peers.

SUPERVISOR FORUMS – sharing all the best practice and working together to make it happen.

IMPROVEMENTS TO WELFARE FACILITIES.

BENEFITS

- Series of new H&S initiatives have been introduced
- 85% of staff stated 'My manager listens to my ideas and views'
- 93% of staff believe health and safety is taken seriously in Tarmac.
- No recordable injuries to contractors and hauliers for 14 months
- 24% improvement in staffs views on welfare facilities.



105 New H&S committee structure

Lafarge Aggregates and Concrete UK > Mountsorrel Quarry



DESCRIPTION

Mountsorrel Quarry re-structured the health and safety committee into 12 operators elected by their peers from all areas of the site. The elected committee Chairman liaises directly with the site management team.

There are no permanent positions for the site management team on the committee. It is free to make a difference where members believe it is most urgently needed. The committee has direct access to the HSQE advisors and the site management team who may be invited to meetings to advise or to respond to specific requests. A budget of £12,000 p.a. and the use of two maintenance fitters for 40 hours per month are provided to help implement

their ideas – this is in addition to any other site budget for Health and Safety.

The committee representatives give Toolbox Talks; hold open 'drop in sessions' for their colleagues; undertake site inspections and encourage cross-department co-operation throughout the site.

BENEFITS

- Enhanced worker involvement in H&S
- A re-developed near miss reporting procedure on site
- Improved pedestrian walkways
- Enhanced traffic management.

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52 Employee forums

Colas Limited > National Initiative



DESCRIPTION

Colas has introduced employee forums. Their purpose is to engage in a dialogue with operatives, in an organised and structured manner, on topics that are important to the operatives or the company. 22 operatives were chosen, each representing one of the contract units within the company.

The forums raise issues that are relevant to operatives working on-site. It provides an opportunity to discuss them in a non-confrontational environment and find solutions to problems.

The issues discussed are fed back to the relevant department

manager for follow up. A report is then provided to give feedback on what action has been taken.

BENEFITS

- Excellent feedback from the people at the sharp end of health & safety
- Wide range of processes improved
- Communication has improved
- Colas systems are being updated based on feedback
- Operational staff feel more involved.

24 Alive & Well 3 - behavioural SHE, interdependence

Brett Group > National Initiative



DESCRIPTION

Brett has created two powerful seven minute videos as part of an updated behavioural SHE campaign (Alive and Well 3). The videos give a detailed account by two members of staff of separate incidences that they were involved in and the consequences that followed.

The overall training package looks at an individual's 'powers and responsibilities'; the sort of tasks that may lead individuals to take a 'shortcut' and recognition of the interdependence of staff in ensuring safe operations. The two DVDs are fundamental to

the discussions around this. The course is being rolled out to all operational staff.

BENEFITS

- DVDs are highly relevant to other Brett employees
- Staff can relate the stories to their own day to day activities
- The honesty and frankness of the videos adds to their impact
- They are an integral part of Brett's behavioural change programme.

103 8.1d Supervisor conferences

Lafarge Aggregates and Concrete UK Limited > Shawell Quarry



DESCRIPTION

Although significant training and seminars were being held for senior and site managers, often supervisory grades missed out on training due to the requirement to maintain competent management coverage for each site.

A conference/seminar format specifically for supervisory staff was developed. The aim was both to provide competency training and to achieve direct involvement of this vitally important group of site based personnel in discussions on key safety issues.

The conferences are half a day in duration with a combination of small workshops, presentations and discussions. They are held

every six months. Attendees are split into teams of four ensuring that there is a mix of experience, knowledge and operation type. This is designed to maximise involvement, interaction and exchange of knowledge and ideas and for the supervisors to develop a network of new contacts.

BENEFITS

- Develops contacts outside their immediate teams
- Enhances knowledge sharing across the company
- More effective H&S systems have been developed.

SAFER BY COMPETENCE

Meaning of Competence

In response to requests from MPA, the Health and Safety Executive (HSE) has added clarity by issuing a number of statements:

- ✳ **Competence defined as:** The ability to apply knowledge, understanding, practical and thinking skills to achieve effective performance to the standards required in employment. This involves solving problems and being sufficiently flexible to meet changing demands
- ✳ **To demonstrate competence,** an operator must have defined the competencies required for every employee taking into account the requirements of the National Occupational Standards; have undertaken an analysis against those benchmarks to identify any gaps in an individual's competence, and be able to demonstrate that they are working actively to fill those gaps under appropriate supervision
- ✳ Although there may be **ways of assessing competence** other than by achieving NVQ/SVQ/QCFs, they **must be capable of meeting the National Occupational Standards**
- ✳ Fundamental to the demonstration of competence is the ability to demonstrate **Continuing Professional Development (CPD)**

Competence is not only vital for planned work, but also to be able to handle adequately, abnormal and emergency situations.

HSE has revised the relevant 'Sector Information Minutes' to update guidance on Competence for HSE Inspectors. SIM 03/2005/15¹ states that **there are no grandfather rights** and that it is not sufficient for employers to claim competence simply through years of service of their workers. SIM 03/2007/10² focuses on the competence of shotfirers & explosives supervisors.

MPA Policy

On 13 July 2011, the MPA Board approved an MPA Policy entitled '**Safer by Competence**'. This Policy, which applies to all Members' activities within scope of MPA Membership³, sets out routes to meeting National Occupational Standards relevant to job functions

and sets a range of target deadlines. All employers are advised, however, that it is in their interests, now, to be able to demonstrate a fully competency-assured workforce.

Routes to Competence

For the great majority of MPA Members, the formal qualifications routes (NVQ/QCF/SCQF) **provide the most logical and straightforward solution** and these represent the preferred approach.

To help individuals, employers and advisers identify the right extractives industry approved qualifications, MPQC has produced a Competence Map showing the principal occupations in each sub-sector of the extractive and mineral processing industries. Links to this extensive and expanding range of qualifications appropriate to Members' activities are also available online via the new red button on the homepage of www.Safequarry.com

Contractors and Hauliers

Where **contractors** are engaged to carry out allotted tasks, Members need to be able to demonstrate the contractors' (and any sub-contractors') competence with **the same degree of rigour as if the contractors were directly employed**.

Hauliers are required under European legislation to build up 35 hours of "periodic training" by 1 October 2014 in order to retain their 'Drivers CPC' licence. MPQC's 'Drivers Skills Card' – which includes an element of assessment - has been accepted as conferring 7 hours contribution to the 35hrs tally. The demonstration of driver competence, therefore, requires as a minimum the possession of a valid MPQC 'Drivers Skills Card'.

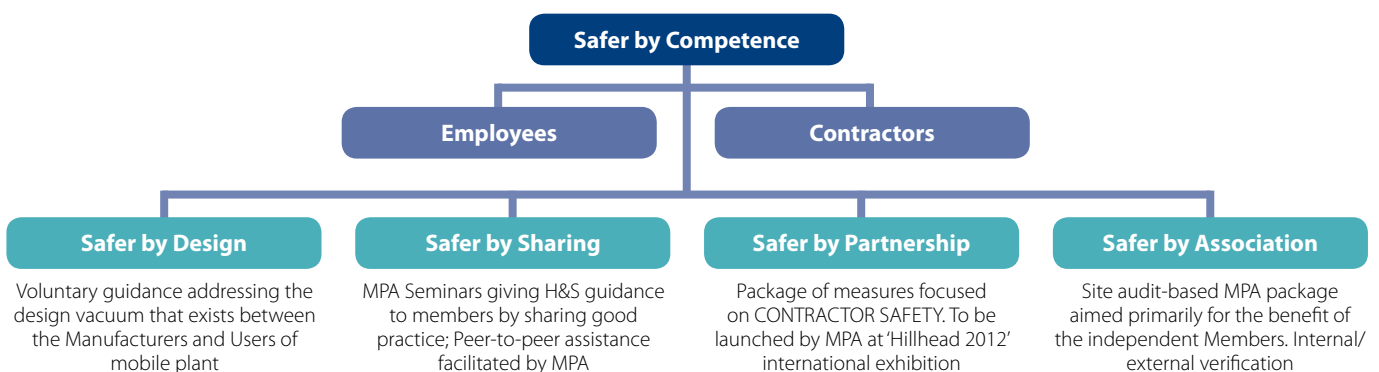
¹ <http://www.hse.gov.uk/foi/internalops/sectors/manuf/03-05-15.htm> (version 2)

² <http://www.hse.gov.uk/foi/internalops/sectors/manuf/03-07-10.htm> (version 2)

³ BPCF members will consider joining 'Safer by Competence' in May 2012

⁴ <http://www.mp-qc.co.uk/content/489/competence-map.aspx>

MPA's "Safer by" family of Initiatives





essential materials
sustainable solutions

SAFER BY COMPETENCE

(Approved by MPA Board 13 July 2011)

MPA Policy on Achieving and Maintaining Competence by Members' Activities within scope of MPA membership

REGULATORY REGIME relevant to Company activities	OPERATIONAL EMPLOYMENT (Excluding Office-based administrative personnel)		QUALIFICATIONS and LEVELS See Competence Map & Database online at: www.mpa-qi.co.uk/content/489/competence-map.aspx						NEED TO MEET NATIONAL OCCUPATIONAL STANDARD(S) relevant to Job Function?	TARGET DEADLINES		ESTIMATED NUMBER OF POSTS REQUIRING COMPETENCE – Other Comments
	BASIS	LEVEL	SHE NVO	S/NVO	QCF	Scottish SCQF	Other routes	100% Engaged		100% Achieved		
Activities subject to The Quarries Regulations 1999 (QR99)	Directly Employed	Management & Supervisors	3, 4, 5	-	4, 6 & 7	-	None	YES	31 Dec 2010 (98% by end of 2010)	30 June 2012 (63% by end of 2010)	1098 posts	
		Operatives & Maintenance	-	2, 3	2 to 5	5, 6	SEE BELOW **	YES	30 June 2012	30 June 2014	3719 posts	
Activities <u>not</u> subject to QR99	Contractors & Sub-Contractors	All Trades	Or ... Specialist Qualifications – refer to: Competence Map & Database devised by MPQC: www.mpa-qi.co.uk/content/489/competence-map.aspx						YES	31 Dec 2013	31 Dec 2015	MPQC Contractors Safety Passport strongly recommended
			-	3, 4, 5	4, 6 & 7	-	SEE BELOW **					
			-	2, 3	2 to 5	5, 6	SEE BELOW **					
Activities <u>not</u> subject to QR99	Contractors & Sub-Contractors	All Trades	Or ... Specialist Qualifications – refer to: Competence Map & Database devised by MPQC: www.mpa-qi.co.uk/content/489/competence-map.aspx						YES	31 Dec 2013	31 Dec 2017	MPQC Contractors Safety Passport strongly recommended
			-	2 to 5	2 to 7	1 to 11	SEE BELOW **					

** A programme of training, development and assessment appropriate to job function(s) and levels of supervision that can be shown to meet the relevant

National Occupational Standard(s) and any relevant legal requirements.

To demonstrate **continuing** competence, a record of relevant Continuing Professional Development (CPD) to be kept, preferably in accordance with a professional scheme.

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Theft and Vandalism Reporting

HELP THE INDUSTRY COMBAT THEFT AND VANDALISM

MPA has launched an easy-to-use, web-based reporting system for incidents of theft and vandalism on www.safequarry.com.

In the event of either on your site, please enter a web based Incident Report. After quick checking by MPA, this will be uploaded and sent out as an e-mail alert to all registered Safequarry users and the reports will also be available to review on the website.

By sharing information in this way, we can raise awareness, warn other sites of activity in their region and help deter further theft or vandalism.

MPA CYCLE SAFE

Last year there were 16 cyclist deaths in London – 13 of them involving a lorry, van or bus.

MPA's national Cycle Safe campaign aims to prevent collisions between cyclists and Large Good Vehicles (LGVs) by raising awareness of how to cycle and drive as safely as possible.

To date, over 27,500 drivers have attended the MPA's mandatory Driverskills course which has included cyclist safety. MPA is now developing a specific course for industry drivers to raise awareness of vulnerable road users.

OUR SIX-POINT PLAN

- 1 Promote driver and industry awareness
- 2 Promote cyclist and public awareness
- 3 Improve driver training
- 4 Encourage members to use appropriate technological adaptations to minimize risks to cyclists and exchange experience
- 5 Liaise with schools
- 6 Work in partnership

MPA has produced a package of campaign resources for use by both members and cycling groups.

For more information, assistance with running your own outreach event with cycling groups/schools/local communities, or to receive resources, please contact:

**Elizabeth Clements or Hilary Arrowsmith on 02079638000
or email hilary.arrowsmith@mineralproducts.org**



The pathway to Zero Harm

Raising the Bar through higher standards

75% reduction in LTI frequency rates in 10 years

HSE confirm members outperform non-members

Concrete Targets 2015 scheme endorsed by HSE

Awards schemes for companies and employees

Safer by Competence programme now in place

Mandatory Health & Safety charter

Sharing best practice with peers

Lower your insurance bills

JOIN US NOW
You cannot afford not to

British Precast Concrete Federation is the UK trade body for precast concrete and cast stone products. We are dedicated to improvement by Raising the Bar in quality, service, safety, health, safety and sustainability. Subscription rates as low as £500 for a wide and deep range of benefits. See www.britishprecast.org for more details or email info@britishprecast.org

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The Group



Your essential ally in the fight against dust

If you're putting together a site Dust Management Plan (DMP) and are looking for dust control measures, then look no further than a Gotland industrial vacuum system.

We can solve your dust or material handling problems by providing safe clean-up, recycling or recovery solutions, through our high-powered mobile or centralised vacuum systems.

If you're trying to control dust by blowing down or using suppression sprays then think again. Blowing down creates airborne dust and twice the work as it all has to be removed again once it's settled. Dust suppression sprays don't necessarily remove the problem - when the material is dry, the threat returns. Our industrial vacuum systems prevent dust inhalation and remove the material, full stop.

Benefits

Improve health & safety: There's no need for back-breaking manual collection and with fully enclosed recovery and highly advanced filters, harmful dusts are instantly removed and safely contained.

Save time and money: Waste removal with a Gotland system is faster, easier and more efficient, because less time is spent by operators cleaning and downtime is significantly reduced. If the material that needs to be recovered is valuable, a Gotland system soon pays dividends.

Customer endorsed service and support: Gotland is recommended and trusted by hundreds of companies for experience, quality and reliability, service and support.

We've got the most powerful and flexible suction equipment you can hire or purchase. But don't take our word for it:

*"Within the dust and stone waste there's a high silica content and a serious H&S issue, so spillages can never be ignored and must be removed safely. Using the **CompVAC**TM means the team avoid making any dust while they're doing this work and that's a major benefit."* **Hanson Whatley Quarry**

*"The **CompVAC**'sTM popular on site because it's easy to use, does an unpleasant chore much more quickly and effectively and our operatives can now reach all the places where dust gathers and spillages happen. It's making a huge difference to our site's housekeeping standards."*

Aggregate Industries Aberdeen

*"Cleaning up used to be one of the least popular jobs on the site. The **SkipVAC**TM has changed all that! The brushes and extensions make life much easier for getting into hard to reach areas and cleaning up all the cement dust waste."* **Lafarge**

*"The **SkipVAC**TM doesn't make any more dust when you're using it; it simply sucks it all up down a hose and into a self-contained hopper. So that reduces the dust hazard for the employees immediately. It's far more efficient, as we can clean up the floors, the walls, all the equipment, and get into nooks and crannies."*

Tarmac Scunthorpe



*"The **CompVAC**TM is ideal for vacuuming up all the spillages, it's easy to move it to wherever we want to clean up any dust build up, it's got a fully enclosed system, so there's no risk of dust escaping, and with the waste dust in the hopper, it's very easy to recycle it back into the manufacturing process."* **Cemex Tilbury**

Features

- ✓ Powerful and compact range of suction units that remove anything from dust up to 50mm debris
- ✓ Easy to operate, fast and quiet in operation
- ✓ Fitted with forklift sleeves so fully mobile
- ✓ Waste collected directly into integral skip, hopper or big bag for easy disposal or recycling
- ✓ Exceptional filtration levels ensure dust-free collection
- ✓ Requires minimal maintenance
- ✓ Operated via a standard 32 amp 3 phase power supply, or independent diesel generator
- ✓ Range of flexible hoses, tools and extensions - no area is inaccessible
- ✓ Can also be used for powering centralised pipework systems around multi-level sites
- ✓ Available for long or short-term hire, or for purchase, depending on your individual requirements

You can improve operating practices to control dust and achieve higher house keeping standards around your site too. Call us on **01737 246 649** to arrange a free site visit and demonstration; we'll assess your needs and deliver the best dust removal or waste recovery solution for your operation.



Check out our website:
www.gotland.co.uk

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Printed on paper and board which is totally chlorine-free and
produced from pulp from sustainable forests.

