

Construction and Maintenance Health, Safety and Wellbeing Briefing

November 2018

SafeStart19 – Talking tomorrow's safety today

SafeStart19 will take place on 14th February 2019 at Stoneleigh Park, Warwickshire. The Event incorporates, safety training, safety demonstrations, inspirational key note speakers and exhibitors showcasing the latest products and services in safety and innovation. The primary focus is a safety event centered around our passionate belief of "Everyone home safe every day". Since its inauguration in 2014,

SafeStart has continued to grow and develop providing a unique platform for anyone working in the railway and highway sector to improve their knowledge and discover the latest innovations in safety alongside business networking opportunities.

Since its inauguration in 2014, SAFESTART has continued to grow and develop with each year being bigger and better than the last. The prime objective of SAFESTART is to deliver a clear and coherent safety message across the railway and highway industry by providing a focused platform for the industry to get together and begin the year with safety at the forefront to undertaking work on the transport network.

SafeStart19 is supported by: Costain, Morgan Sindall, ORR, Rail Alliance, Track Safety Alliance, Rail Safety Week and Rail Forum Midlands.

**For visitor and exhibitor information visit www.safestart.ev
or email: liesa.coates@in2global.com**

**The Hub
Newsletter
contains
updates and
advice for our
supply chain.
The newsletter
is written by
supply chain
partners to
share health
and safety
best practice,
any advice is
provided as
guidance.**



Health and Safety Executive

Health and Safety

Summary Statistics

The HSE have issued an informative summary of statistics relating to Health and Safety at Work in 2017/18. The publication contains useful information relating to identified work related ill health, Lung disease, Stress, Depression, anxiety, Workplace injuries, costs to Britain and an informative section on European comparisons. Key headlines are identified below:-

Key figures for Great Britain (2017/18)

- 1.4 million working people suffering from a work-related illness
- 2,595 mesothelioma deaths due to past asbestos exposures (2016)
- 144 workers killed at work
- 555,000 injuries occurred at work according to the Labour Force Survey
- 71,062 injuries to employees reported under RIDDOR
- 30.7 million working days lost due to work-related illness and workplace injury
- £15 billion estimated cost of injuries and ill health from current working conditions (2016/17)

Further information can be found at:-

www.hse.gov.uk/statistics/overall/hssh1718.pdf

Key facts

 **1.4 million**

Work-related ill health cases (new or long-standing) in 2017/18

Source: Estimates based on self-reports from the Labour Force Survey, people who worked in the last 12 months

 **0.6 million**

Work-related stress, depression or anxiety cases (new or long-standing) in 2017/18

Source: Estimates based on self-reports from the Labour Force Survey, people who worked in the last 12 months

 **0.5 million**

Work-related musculoskeletal disorder cases (new or long-standing) in 2017/18

Source: Estimates based on self-reports from the Labour Force Survey, people who worked in the last 12 months

 **0.6 million**

Non-fatal injuries to workers in 2017/18

Source: Estimates based on self-reports from the Labour Force Survey

 **71,062**


Non-fatal injuries to employees reported by employers in 2017/18

Source: RIDDOR

 **144**

Fatal injuries to workers in 2017/18

Source: RIDDOR

 **30.7 million**

Working days lost due to work-related ill health and non-fatal workplace injuries in 2017/18

Source: Estimates based on self-reports from the Labour Force Survey

 **12,000**

Lung disease deaths each year estimated to be linked to past exposures at work

Source: Counts from death certificates and estimates from epidemiological information

 **2,595**

Mesothelioma deaths in 2016, with a similar number of lung cancer deaths linked to past exposures to asbestos

Source: Counts from death certificates and estimates from epidemiological information

 **9.7 billion**


Annual costs of new cases of work-related ill health in 2016/17, excluding long latency illness such as cancer

Source: Estimates based on HSE Costs to Britain Model

 **15.0 billion**

Annual costs of work-related injury and new cases of ill health in 2016/17, excluding long latency illness such as cancer

Source: Estimates based on HSE Costs to Britain Model

 **5.2 billion**

Annual costs of workplace injury in 2016/17

Source: Estimates based on HSE Costs to Britain Model



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Health and safety at work
Summary statistics for Great Britain 2018



Blue star focus

The following Blue Stars have been issued in the period for Excellence/ Innovation in Health and Safety:-

The Innovation

On the M1 J13 -16 SMP project, an innovation called Autobrake has been installed on the site sweepers. The system incorporates a radar system that is fitted to the rear of the sweepers which automatically applies the brakes when an obstruction is detected.

The sensitivity/distance for obstruction detection can be adjusted to suit the working environment. Upon object detection the system alerts operators with three warnings to enable operators to check their surroundings and avert a collision.

Feedback from the project team

“We tried the Autobrake on one sweeper to stat with to see if it would work in the confines of a Smart Motorways scheme. The initial trial was successful and the sweeper driver stated he was happy to have an additional aide when reversing. The device was then installed on all the projects Sweepers”.

Key benefits of the system include:-

- The three stage warning system allows operators to stop on the first warning and look to see what the obstruction is.
- The device gives operators an extra safety measure when they are driving and potentially looking in the reversing camera or at the kerb line they are cleaning.



- If the vehicle needs to get closer to an obstruction the driver can turn a key to briefly override the system but it will immediately default to “on” so can’t be permanently deactivated.

For the project the system adds an additional control measure for an operation where reversing cannot feasibly be eliminated or reduced. It also prevents the need for potentially having a banksman in the area.

The Innovation

The M5 Oldbury Viaduct scheme has been awarded a Blue Star for the adoption of GTL fuel. The first Highways England major project to use the product extensively across a scheme.

The project is using GTL which is an alternative fuel manufactured from natural gas and burns cleaner than conventional diesel oil. GTL fuel can be used in any diesel engine, regardless if it’s a vehicle, piece of machinery or equipment. There’s no need for any engine modification, new infrastructure or vehicle/machinery investment.

The Benefits

GTL converts gas to liquid using the Fischer-Tropsch process, producing more dependable molecules with fewer pollutions than conventional crude oil.

The benefits include:-

- A reduction in air emissions, including the pollutants of Nitrogen Oxide, Particulate Matter, Carbon Monoxide and unburnt hydrocarbons.
- For off-road machinery, the characteristic reduction range for Nitrogen Oxide is 6-25% and for Particulate Matter is 10-90%, when compared with conventional diesel.
- GTL is more biodegradable than conventional diesel.
- Reduced noise levels in some engines due to better combustion.
- Improved start up’s in cold conditions due to higher octane levels.
- Has a higher flash point compared with conventional diesel, bringing an indirect health and safety benefit.



Highways England Safety Alerts issued since the last briefing:-

Hei 065 Crawler Crane
Hei 064 cctv mast_failure
Hei063 cctv cable strike
Hei062 principal designer duties

These and previous alerts are available through the following link:
www.highwaysafetyhub.com/alerts.html

Safety Alert Hei 063 Spotlight:-

There were 83 service strikes within the Highways England strategic road network between November 2017 and October 2018. Each one of these incidents had the potential to cause significant injury, disruption to services and financial costs for repair.

On average there are 12 deaths, and 600 serious injuries per year due to service strikes of electricity services alone. Safety alert Hei063 gives advice on how to plan working in areas containing utilities, gives detail on workforce and supervisory competencies, the use of utility avoidance equipment and also contains guidance and detail regarding the correct installation of services.

Further detailed information regarding utility avoidance can be found at:-

<http://www.hse.gov.uk/pubns/books/hsg47.htm> (HSG 47 Avoiding Danger from Underground Services)

<https://www.pas128.co.uk/> (PAS 128 A new specification for underground utility detection, verification and location)



Damage to CCTV camera power lead

Incident Description
As part of site vegetation clearance on the M6 J12-26 DMU scheme a team were using a chainsaw to clear vegetation. A cable feeding a temporary CCTV camera which was monitoring the surrounding approach at J12 of the M6, as part of the DMU M6 J12-12 scheme, was cut.

The cable had been draped above ground with no visible warning markings and was obscured by branches. The team stated that they had undertaken a visual inspection of the area and proceeded to use the tool as they did not see the cable.

Initial Findings
The initial investigation has identified the following:

- Drawings detailing the location of the cable were not available.
- CDM areas for M6 and M2 schemes were not defined.
- There was no agreed method for coordinating construction activities between the M6 and M2 projects.

Recommendations

- Ensure that all cables are clearly marked and visible to all workers.
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Highways England Issue AIRSweb User Guidance

We believe no one should be harmed when travelling or working on the Strategic Road Network and we are committed to protecting the health and safety of our employees, supply chain personnel, road users and stakeholders: home safe and well every day.

All Service Providers and Contractors working for Highways England are required to use Airsweb to report and record accident and near miss investigations. In order to support this, Highways England's National Health & Safety Team has developed a library of guidance material to assist Airsweb users with how to perform a variety of processes within Airsweb.

The guides are available via the following link
<http://share/Share/livelink.exe?func=ll&objid=67719179&objAction=browse&viewType=1>

and are designed to provide users simple, step by step instructions on how to perform a variety of tasks such as;

- Loading an Incident
- Loading hours worked
- Uploading an action
- Completing an incident

investigation, and many more. If you require any further information on Airsweb please contact:
Airswebsupplychain@highwaysengland.co.uk



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