

Current work in the Hub

Work continues to review the following raising the bar guidance documents:

- B9 Service Avoidance
- B10 Communication of Risk
- B11 Influencing Driver Behaviour
- B12 Occupational Health

We welcome any constructive feedback so if you wish to get involved please send your comments to DeliveryHubInbox@highways.gsi.gov.uk

Current raising the bar guidance documents are available on the Highways Agency website:
<http://www.highways.gov.uk/our-road-network/safety/major-projects-delivery-hub-health-safety-action-group/>

Highways Agency alerts:

Safety Alerts can be found here

<https://www.gov.uk/government/publications/highways-agency-safety-alerts>

HSE News

HSE Publishes Latest Annual Statistics

Injury and ill-health statistics released by the Health and Safety Executive (HSE) show that while Britain continues to be one of the safest places to work in Europe, too many workers are still being injured or made ill by work with an estimated 28.2 million working days were lost due to work related ill health or injury in 2013/14.

In summary the statistics show that, in 2013/14, there were:

- 133 fatal injuries – a fall of 17 from 150 the previous year
- 77,593 other injuries were reported under RIDDOR, equating to 304.6 injuries per 100,000 employees
- An estimated two million people in 2013/14 were suffering from an illness they believed was caused or made worse by current or past work.

The construction industry remains top of the sectors where workers are most likely to be injured by their jobs with 1,900 major/specified injuries,

closely followed by agriculture (292 major/specified injuries), manufacturing (3,159 major/specified injuries) and waste and recycling (486 major/specified injuries).

However the British Safety Council, while welcoming the continuing fall in the number of fatal injuries in Great Britain's workplaces, has expressed its concern with the upward trend in the number of new work-related ill-health cases.

Stress, anxiety and depression and musculoskeletal disorders continue to be the biggest causes of work-related ill health and account for almost 20 million working days lost each year, costing society an estimated £8.6 billion.

The focus for many years has been on safety, but with some 2 million people suffering from a work-related illness – and with more than half a million new cases reported in 2013/14 – it is clear we need to change our thinking and focus in order to tackle the root cause.

What good client leadership looks like !



The Prime Minister endorses Health and Safety at a recent visit to M1 Junction 19 Project. David Cameron and the Chancellor both wore the full 6 PPE and a photograph capturing this has been used in a novel training poster; saying if it good enough for the PM then it is good enough for you.

Link to Highways Magazine article;

<http://highwaysmagazine.co.uk/cameron-and-osborne-visit-m1-improvement-project/>

Innovation

A new safety scheme to protect road workers operating on scaffolding above active traffic lanes has been launched on a smart motorway scheme on the M62 and M1.

Signs in advance of a bridge on the motorway where scaffolding is in use direct high-sided vehicles away from the structure. If there is a breach a Sentry Beam detects errant vehicles, activating a message on a variable message sign, alerting drivers and enabling them to turn round and find an alternative route.

There is also a simultaneous alarm on the scaffolding warning workers of the breach in enough time for them to reach a position of safety. The safety system has been adopted by the BAM Morgan Sindall Joint Venture on the M62 and M1 J39 to 42 smart motorway Projects and was originally designed to work on temporary ground-based schemes. Historically drivers are warned of overhead obstructions via goalposts and blue cones as per Raising the Bar 7 – Overhead Services and Structures Protection. However this new electronic warning system is seen as an additional benefit as

it simultaneously alerts operative working overhead of the potential of safety breaches. 'The new solution has quickly proved its worth; within the first week, there were three breaches, all of which were quickly remedied as the drivers were instantly alerted and able to turn around and find an alternative route.

Manufacturing – the future of construction

Laing O'Rourke (LOR), with the support of the Highways Agency, applied Design for Manufacturing and Assembly (DfMA) techniques in combination with Digital Engineering

(DE) to the design and construction of eight underbridges on the A453 widening scheme. Pre-cast beams have long been a standard component of bridge construction but on the A453, the concept was expanded to manufacture sectional bridge abutment shells, entire bridge piers, crossheads, cill beams, cheek walls and modular wing wall units. LOR specialists worked with design consultants to prepare fully detailed 3D models of the structures and individual components. The components were manufactured at our specialist facility at Explore Industrial Park using a combination



of computer controlled machinery linked to the model and skilled operatives.
The technique enables significant programme savings since the components can be manufactured in advance of the commencement of site works and assembled by a small, competent workforce in a controlled environment in a fraction of the time required to construct them sequentially insitu. Additional health, safety, environmental and quality benefits include:

- Labour on site is reduced as the number of insitu operations is reduced.
- Smaller labour force reduces the risk of injury to operatives
- Work at height is reduced as

insitu reinforcement, formwork and concrete is minimal.

- Factory manufacture minimises the exposure of the workforce to adverse weather.
- Factory control allows high quality product to be produced consistently.
- “Just in time” deliveries reduce the materials storage area required on site
- Reduced disruption to the general public as projects are delivered faster.
- Environmental impact is reduced as site waste is practically eliminated.
- Future design costs can be reduced as the concepts are transferable across projects.

Congratulations

A1 Leeming to Barton celebrates 1,000,000 safe hours

On 2nd October 2014 the A1 Leeming to Barton Improvement project reached a significant Health & Safety milestone when 1,000,000 safe hours without a reportable accident or incident was achieved. The scheme has been in construction for over 18 months and to not suffer a single lost time injury in this time is seen as a direct result of the continued hard work and commitment to Health & Safety excellence by the project team.

As a celebration of this success, a ‘1,000,000 Safe Hours’ cake was made by the project team.

Health and Safety Executive news

The Safety Excellence Wheel, originally issued in June 2011 as an output to the Highways Agency's Construction and Maintenance Strategy, is going through a review process by the Hub H&S Action Group to update the matrix metrics and also develop a defined process for undertaking the assessment as well as introducing cross learning peer reviews.

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