



GallifordTry



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Innovation and technology has a key role in creating safer work places for the construction industry



The industry can do more to make sites safer, ensuring that everyone can go home just as healthy as when they arrived at work in the morning

Technology could be the key to this: virtual reality (VR) for example can help us learn from mistakes without exposing our staff to risk and the potential for injury



HSE recorded in 2018/19:

30 Construction workers died on site

7 members of the public died as a result of construction related activity



The none fatal injury rate in construction has risen for the first time in five years.

In 2018 there were 4,872 reportable incidents



Small changes in culture, attitude and behaviors are needed to improve the health and safety record

Younger generations now working in the industry have the experience to apply technology to our work, which can help reduce risk

Key Technologies



Offsite construction

As this practice comes to the fore,
we can anticipate an improvement
in health and safety performance

At a 1,350 bed student
accommodation project in
Newcastle, Galliford Try saved 18
months on site

Offsite construction

This moved around 750,000 working hours to a factory environment

Less time on site means less time our staff are exposed to risk

Virtual Reality (VR)

Used for site familiarisation and toolbox talks and simulated equipment operation, VR mimics reality and highlights risks without exposing workers to the consequences



Online inductions

Staff complete competency checks
online before arriving on site

This ensures that everyone
working is safety conscious,
reducing risk of accident



Watching over staff

GPS trackers ensure every worker can be accounted for and no one goes missing

Biometric site access allows monitoring of precisely who is on site when

Field View App

A cloud based app that uses a device to record project data in real time

Allows quick resolution of issues and mitigation of risks

Advanced PPE

Galliford Try's highways team use digital ear defenders which allow normal environmental noise to be heard but blocks out loud, harmful sounds



Carbon reduction

Solar lighting on site perimeters reduces a project's carbon footprint

The use of electric car charging stations extends the environmental benefit beyond the perimeter fence

Key area: BIM

Visualisation by designers to produce project specific, accurate and meaningful design risk assessments

More attention to risk at the design sign off stage could make construction or ongoing maintenance much safer

Key area: BIM

Owners and operators of buildings may soon be legislated to maintain an up to date record of every aspect of components and construction

BIM seems the most suitable way to manage this data, and will make it easier for maintenance teams to record changes against an original design



Galliford Try App

Access to tools and reporting like:

Near-miss reporting

Safety behavior discussion

Toolbox talks

first ten minute briefings

Safety reward schemes

Shut downs

Implementation of directors' safety tours



Galliford Try App

Safety leadership programme sets golden rules and back to basics guidance

Details on how the programme is delivered through coaches and champions on site, in office locations and through training



Galliford Try App: Sharing best practice

Any employee can post a picture and description of what they're doing to improve safety on site and tell others how they can adopt the same measure

Directors safety tours

Directors committed to a minimum of 12 safety specific sight visits a year

A great opportunity to identify unsafe practices and talk about how things can be done differently

This presentation is based on notes made by
Martin Armitage and presented at the
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