# Table of Contents

**Key statistics** 4  
Ill health 4  
Fatal injuries 5  
Non-fatal injuries 6  

**Introduction** 7  

**Work-related ill health** 8  
All illness 8  
Musculoskeletal disorders 10  
Stress, depression or anxiety 12  
Other conditions 14  

**Work-related injuries** 16  
Fatalities 16  
Non-fatal injuries 18  

**Economic Cost** 21  

**Working days lost** 22  

**Annex 1: Sources and definitions** 23  

**Annex 2: Links to detailed tables** 25  

**National Statistics** 26
Key statistics

Ill health

78,000 workers suffering from work-related ill health (new or long-standing) averaged over the three-year period 2019/20-2021/22

In the recent years prior to the coronavirus pandemic, the rate of self-reported work-related ill health had been broadly flat. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

Source: LFS estimated annual average 2019/20-2021/22
Fatal injuries

There were 30 fatal injuries to workers in 2021/22. This is in comparison with the annual average number of 36 fatalities for 2017/18-2021/22.

Source: RIDDOR, 2021/22. Note: p is used in this document to indicate provisional figures due to be finalised in 2023.

Source: RIDDOR, 2017/18-2021/22. Accident kinds are shown for the top 5 causes of fatal injury.
Non-fatal injuries

59,000 non-fatal injuries to workers each year averaged over the three-year period 2019/20-2021/22. Prior to the coronavirus pandemic, the rate of self-reported non-fatal injury to workers showed a downward trend. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

Source: LFS, estimated annual average 2019/20-2021/22

![Accident kinds chart]

Source: Non-fatal injuries reported under RIDDOR 2019/20-2021/22. RIDDOR is used here as the LFS is not able to provide a breakdown to this level of detail. Accident kinds are shown that account for 10% or more of injuries.
Introduction

This report provides a profile of workplace health and safety in Construction\(^1\)

Construction includes three broad industry groups:

- Construction of buildings – general construction of buildings, including new work, repair, additions and alterations;
- Civil engineering – civil engineering work, including road and railway construction, and utility projects; and
- Specialised construction activities – covering trades that usually specialise in one aspect, common to different structures. For example: demolition, electrical, plumbing, joinery, plastering, painting and glazing.

There is an overlap between these groups, for example roofing work may be carried out by a specialist contractor and so included in Specialised construction activities or by a general contractor as part of Construction of buildings.

This sector accounts for 6% of the workforce in Great Britain\(^2\)

**Important Note:** The coronavirus (COVID-19) pandemic and the government’s response has impacted recent trends in health and safety statistics published by HSE and this should be considered when comparing across time periods. More details can be found in our reports on the impact of the coronavirus pandemic on health and safety statistics.

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\(^1\) The Construction sector is defined by section F within the 2007 Standard Industrial Classification. See [www.hse.gov.uk/statistics/industry/sic2007.htm](http://www.hse.gov.uk/statistics/industry/sic2007.htm) for more detail.

\(^2\) Annual Population Survey, 2021
Work-related ill health

All illness

In Construction:

- There were an estimated 78,000 work-related ill health cases (new or long-standing)

- 53% were musculoskeletal disorders.

*Source: LFS, estimated annual average 2019/20-2021/22*

**Construction compared to industries with similar work activities**

![Bar chart showing rate of ill health per 100,000 workers]

In the latest year Construction had an ill-health prevalence rate of 3690 per 100,000 workers which compares to the all industry rate of 4030 per 100,000 workers.

- Around 3.7% of workers suffered from work-related ill health (new or long-standing cases)

- This rate is not statistically different than that for workers across all industries (4.0%)

*Source: LFS, estimated annual average 2019/20-2021/22*

95% confidence intervals are shown on the chart
In the recent years prior to the coronavirus pandemic, the rate of self-reported work-related ill health had been broadly flat. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

*Shaded area represents a 95% confidence interval
Latest data includes the effects of the coronavirus pandemic, shown as a break in the time series.*

*Source: LFS annual averages (new and long-standing cases), grouped by 3 years from, from 2003/04-2005/06 to 2019/20-2021/22*
Musculoskeletal disorders

In Construction:

- There were an estimated 42,000 work-related cases of musculoskeletal disorder (new or long-standing), 53% of all ill health in this sector

Source: LFS, estimated annual average 2019/20-2021/22

Construction compared to industries with similar work activities

In the latest year Construction had an MSD prevalence rate of 1970 per 100,000 workers which compares to the all industry rate of 1110 per 100,000

- Around 2.0% of workers in the sector reported suffering from a musculoskeletal disorder that they believed was work-related (new or long-standing cases)

- This rate is statistically significantly higher than that for workers across all industries (1.1%)

Source: LFS, estimated annual average 2019/20-2021/22
95% confidence intervals are shown on the chart
In the recent years prior to the coronavirus pandemic, the rate of self-reported work-related musculoskeletal disorders had been broadly flat. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

Shaded area represents a 95% confidence interval
Latest data includes the effects of the coronavirus pandemic, shown as a break in the time series.
Source: LFS annual averages (new and long-standing cases), grouped by 3 years from, from 2003/04-2005/06 to 2019/20-2021/22
Stress, depression or anxiety

In Construction:

- There were an estimated 21,000 work-related cases of stress, depression or anxiety (new or long-standing), 27% of all ill health in this sector.

*Source: LFS, estimated annual average 2019/20-2021/22*

**Construction compared to industries with similar work activities**

![Chart showing stress, depression, or anxiety rates per 100,000 workers]

In the latest year Construction had a stress, depression or anxiety prevalence rate of 980 per 100,000 workers which compares to the all industry rate of 2020 per 100,000.

- Around 1.0% of workers in the sector reported suffering from stress, depression or anxiety they believed was work-related (new or long-standing cases).
- This rate is statistically significantly lower than that for workers across all industries (2.0%).

*Source: LFS, estimated annual average 2019/20-2021/22*

95% confidence intervals are shown on the chart.
Prior to the coronavirus pandemic, the rate of work-related stress, depression or anxiety had been broadly flat. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

*Shaded area represents a 95% confidence interval*

*Latest data includes the effects of the coronavirus pandemic, shown as a break in the time series.*

*Source: LFS annual averages (new and long-standing cases), grouped by 3 years from, from 2003/04-2005/06 to 2019/20-2021/22*
Other conditions

Occupational asthma

• According to reports from the chest physician reporting scheme for occupational respiratory disease, the rate of occupational asthma is 0.7 per 100,000 workers.

Source: The Health and Occupation Reporting network (THOR), annual average 2017-2019

Chronic Obstructive Pulmonary Disease (COPD)

• There are various causative factors linked to COPD including occupational exposure to fumes, chemicals and dusts and environmental pollution. Smoking is the single most important causative factor.

• An analysis of COPD, based on the UK Biobank study, identified a number of occupations for which the prevalence of COPD was significantly higher compared with all other occupations. Within the construction sector, roofers were identified as being one of the occupational groups with a higher than the all occupation average prevalence of COPD.

Source: Work-related Chronic Obstructive Pulmonary Disease (COPD) in Great Britain, 2019
see: www.hse.gov.uk/statistics/causdis/copd.pdf

Contact dermatitis

• Certain occupations within construction have shown an elevated rate of contact dermatitis. In 2017-2019, these occupations compared to the all occupation rate (2.73 per 100,000 workers) as follows:

  – Plasterers: 8.6 per 100,000
  – Bricklayers and masons: 7.6 per 100,000
  – Carpenters and joiners: 4.1 per 100,000

• The overall rate for construction is 2.7 per 100,000 workers which compares to the all industry rate of 2.73

Source: The Health and Occupation Reporting network (THOR), annual average 2017-2019
**Occupational cancer**

HSE commissioned research to look at the burden of occupational cancer in Great Britain. The occupational cancer burden research indicates:

- Across all industries past occupational exposure to known and probable carcinogens is estimated to account for about 5% of cancer deaths and 4% of cancer registrations currently occurring each year in Great Britain.

- This equates to about **8,000** cancer deaths and **13,500** new cancer registrations each year.

- Of those 8,000 deaths, it is estimated that around **3,500** would be in the Construction sector.

*Source: Burden of occupational cancer in Great Britain*


- An epidemiological study of mesothelioma, a form of cancer that follows the inhalation of asbestos fibres, in Great Britain suggests that about 46% of currently occurring mesotheliomas among men born in the 1940s is associated with the construction industry including carpenters, plumbers and electricians. 17% can be attributed to asbestos exposures through carpentry work alone.

- A key factor in causing the higher risks now seen in these former workers appears to be the extensive use of insulation board containing brown asbestos (amosite) within buildings for fire protection purposes. *References see mesothelioma*


**Other conditions**

Other conditions that can affect construction workers include:

- Occupational deafness; and

- Hand arm vibration (largely made up of two conditions, vibration white finger and carpal tunnel syndrome).

*Source: Our main source of information on both these conditions is from new claims from the IIWB. Further detail is available at*

[www.hse.gov.uk/statistics/causdis/deafness/index.htm](http://www.hse.gov.uk/statistics/causdis/deafness/index.htm) and

Work-related injuries

Fatalities

In Construction there were:

- There were 30 fatal injuries to workers and 5 to members of the public in 2021/22;

- An average of 36 fatalities to workers and 5 to members of the public each year over the last five years;

- 51% of deaths over the same five-year period were due to Falls from a height

*Source: RIDDOR, 2021/22; RIDDOR, 2017/18-2021/22*

Construction compared to industries with similar work activities

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rate per 100,000 workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>1.63</td>
</tr>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>2.86</td>
</tr>
<tr>
<td>Water supply, sewerage, waste management and remediation activities</td>
<td>0.9</td>
</tr>
<tr>
<td>Transportation and storage</td>
<td>0.68</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0.41</td>
</tr>
<tr>
<td>All industries</td>
<td>0.81</td>
</tr>
</tbody>
</table>

The fatal injury rate (1.63 per 100,000 workers) is around 4 times the all industry rate

*Source: RIDDOR, 2017/18-2021/22*
Prior to the coronavirus pandemic, the rate of fatal injury to workers showed a downward trend, with signs of flattening out in more recent years. In 2021/22 the rate was similar to the pre-coronavirus levels.

*Source: RIDDOR 1981 to 2021/22*

*Latest data includes the effects of the coronavirus pandemic, shown as a break in the time series.*
Non-fatal injuries

The Labour Force Survey is HSE’s preferred data source for non-fatal injuries. The latest estimates show that in Construction there were:

- 59,000 cases of non-fatal work-related injury
- 39% involved over three days and 26% over seven days absence

Source LFS, estimated annual average 2019/20-2021/22

Construction compared to industries with similar work activities

In the latest year Construction had a non-fatal injury rate of 2880 per 100,000 workers which compares to the all industry rate of 1650 per 100,000 workers

- Around 2.9% of workers in this sector suffered from an injury
- This rate is statistically significantly higher than that for workers across all industries (1.6%)

Source: LFS, estimated annual average 2019/20-2021/22
95% confidence intervals are shown on the chart
Prior to the coronavirus pandemic, the rate of self-reported non-fatal injury to workers showed a downward trend. The rate for the latest period, which includes years affected by the coronavirus pandemic, was not statistically significantly different from the previous period.

*Source:* LFS, grouped by 3 years, estimated annual average from 2001/02-2003/04 to 2019/20-2021/22

*Latest data includes the effects of the coronavirus pandemic, shown as a break in the time series.*

*Shaded area represents a 95% confidence interval*
Supporting information around work-related injuries is available from RIDDOR reporting. In Construction there were:

- 4,185 non-fatal injuries to employees reported by employers under RIDDOR in 2021/22
- 1,556 (37%) were specified injuries and 2,629 (63%) were over seven-day injuries

*Source: RIDDOR, 2021/22*

Main accident kinds for the latest three years (2019/20-2021/22)

![Bar chart showing accident kinds](image)

*Source: RIDDOR, 2019/20-2021/22*

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3 The LFS gives the best indication of the scale of workplace injury within the sector. RIDDOR provides additional information for non-fatal injuries but needs to be interpreted with care since it is known that non-fatal injuries are substantially under-reported, especially for the self-employed. Possible variations in reporting rates both between industries and over time make comparisons difficult. However, RIDDOR can be used for analysis at a detailed level not available through the LFS, for example, around the kind of incident.

4 For the full list of specified injuries, see [www.hse.gov.uk/riddor/reportable-incidents.htm](http://www.hse.gov.uk/riddor/reportable-incidents.htm)
Economic Cost

- The total cost in 2019/20 is estimated at £1.4 billion, (95% confidence interval £1,092M - £1,704M)

- This accounts for 7% of the total cost of all work-related ill health and injury (£18.7 billion)

Workplace injury and ill health impose costs: both financial (for example in terms of lost output and healthcare costs) and non-financial (the monetary valuation of the human cost of injury and illness in terms of loss of quality of life, and for fatalities, loss of life). Taken together, this gives the total economic cost to society. This cost is shared between individuals, employers and government/taxpayers.
Working days lost

In Construction around 2.2 million working days (full-day equivalent) were lost each year due to:

• workplace injury (25%) and
• work-related illness (75%)
• That is equivalent to around 1.1 working days lost per worker which is not statistically different than the all industry level (1.0 days)

Source: LFS, estimated annual average 2018/19-2019/20, 2021/22
95% confidence intervals are shown on the chart
Annex 1: Sources and definitions

The Labour Force Survey (LFS): The LFS is a national survey run by the Office for National Statistics of currently around 36,000 households each quarter. HSE commissions annual questions in the LFS to gain a view of self-reported work-related illness and workplace injury based on individuals' perceptions. The analysis and interpretation of these data are the sole responsibility of HSE.

- Self-reported work-related illness: People who have conditions which they think have been caused or made worse by their current or past work, as estimated from the LFS. Estimated total cases include long-standing as well as new cases. New cases consist of those who first became aware of their illness in the last 12 months.

- Self-reported injuries: Workplace injuries sustained as a result of a non-road traffic accident, as estimated by the LFS.

RIDDOR: The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations, under which fatal and defined non-fatal injuries to workers and members of the public are reported by employers. Certain types of work-related injury are not reportable under RIDDOR, hence excluded from these figures. Particular exclusions include fatalities and injuries to the armed forces and injuries from work-related road collisions.

Specialist physician surveillance schemes (THOR): Cases of work-related respiratory and skin disease are reported by specialist physicians within The Health and Occupation Reporting network (THOR) surveillance schemes.

Ill health assessed for disablement benefit (IIDB): New cases of specified ‘prescribed diseases’ (with an established occupational cause) assessed for compensation under the Industrial Injuries Disablement Benefit scheme.

HSE Costs to Britain Model: Developed to estimate the economic costs of injury and new cases of ill health arising from current working conditions. The economic cost estimate includes estimates of financial (or direct) costs incurred (either in terms of payments that have to be made or income/output that is lost) and the monetary valuation of the impact on quality and loss of life of affected workers.

Rate per 100,000: The number of annual workplace injuries or cases of work-related ill health per 100,000 employees or workers.
95% confidence interval: The range of values within which we are 95% confident contains the true value, in the absence of bias. This reflects the potential error that results from surveying a sample rather than the entire population.

Statistical significance: A difference between two sample estimates is described as ‘statistically significant’ if there is a less than 5% chance that it is due to sampling error alone.

For more information, see www.hse.gov.uk/statistics/sources.pdf
Annex 2: Links to detailed tables

The data in this report can be found in the following tables:

Work-related illness
lfsillind: www.hse.gov.uk/Statistics/lfs/lfsillind.xlsx
THORR04: www.hse.gov.uk/Statistics/tables/thorr04.xlsx
THORR05: www.hse.gov.uk/Statistics/tables/thorr05.xlsx
THORS04: www.hse.gov.uk/Statistics/tables/thors04.xlsx
THORS05: www.hse.gov.uk/Statistics/tables/thors05.xlsx
CAN05: www.hse.gov.uk/Statistics/tables/can05.xlsx
IIDB01: www.hse.gov.uk/Statistics/tables/iidb01.xlsx
DC01: www.hse.gov.uk/Statistics/tables/dc01.xlsx
lfsillocc: www.hse.gov.uk/Statistics/lfs/lfsillocc.xlsx

Workplace injuries
lfsinjind: www.hse.gov.uk/Statistics/lfs/lfsinjind.xlsx
lfsinjocc: www.hse.gov.uk/Statistics/lfs/lfsinjocc.xlsx
RIDIND: www.hse.gov.uk/Statistics/tables/ridind.xlsx
RIDFATAL: www.hse.gov.uk/Statistics/tables/ridfatal.xlsx
RIDHIST: www.hse.gov.uk/Statistics/tables/ridhist.xlsx
RIDKIND: www.hse.gov.uk/Statistics/tables/ridkind.xlsx

Costs to Britain of workplace injury and illness COST_tables:
www.hse.gov.uk/Statistics/tables/costs_tables1920.xlsx

Other tables can be found at: www.hse.gov.uk/Statistics/tables/index.htm
National Statistics

National Statistics status means that statistics meet the highest standards of trustworthiness, quality and public value. They are produced in compliance with the Code of Practice for Statistics and awarded National Statistics status following assessment and compliance checks by the Office for Statistics Regulation (OSR). The last compliance check of these statistics was in 2013.

It is Health and Safety Executive’s responsibility to maintain compliance with the standards expected by National Statistics. If we become concerned about whether these statistics are still meeting the appropriate standards, we will discuss any concerns with the OSR promptly. National Statistics status can be removed at any point when the highest standards are not maintained and reinstated when standards are restored. Details of OSR reviews undertaken on these statistics, quality improvements, and other information noting revisions, interpretation, user consultation and use of these statistics is available from www.hse.gov.uk/statistics/about.htm

An account of how the figures are used for statistical purposes can be found at www.hse.gov.uk/statistics/sources.htm.

For information regarding the quality guidelines used for statistics within HSE see www.hse.gov.uk/statistics/about/quality-guidelines.htm

A revisions policy and log can be seen at www.hse.gov.uk/statistics/about/revisions/ Additional data tables can be found at www.hse.gov.uk/statistics/tables/.

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Journalists/media enquiries only: www.hse.gov.uk/contact/contact.htm