



# Workplace Safety and Health Report 2024

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National Statistics

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## NOTATIONS

- : Nil or negligible
- n.a. : Not applicable/Not available
- [N] : See (II) below, applicable to workplace major and minor injury figures from 2021.

### Note:

- (I) Data presented in this report reflect revised methodology and improved classification of entities by industries, including the revision due to Singapore Standard Industrial Classification 2020.
  - (II) Prior to January 2021, workplace major and minor injury numbers pertain to injuries sustained by employees that resulted in four or more days of medical leave, or at least 24 hours of hospitalisation. Following the amendments to the Work Injury Compensation Act (WICA) which took effect from September 2020, employers need to report all work injuries with any instance of medical leave or light duties. From January 2021, major and minor injury numbers shared in this report include injuries with any instance of light duty or medical leave issued. Numbers presented under this new series are marked with [N].
  - (III) Since 2022, sub-classification for the Incident Type (Cause) of workplace injuries have been introduced to reprioritise the key areas of concern for better interventions. Incident Type (Cause) of workplace injuries are further classified based on their fatality risk. Details of this classification can be found in **Annex C4**.
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## KEY FACTS

**SINGAPORE'S WORKPLACE SAFETY AND HEALTH PERFORMANCE IN 2024 REMAINED AMONG TOP PERFORMING COUNTRIES GLOBALLY**

Singapore's Workplace Safety and Health (WSH) performance continued to rank among the top performing countries globally, with a five-year average workplace fatality rate of 1.1 per 100,000 workers. Singapore's performance is marginally behind the top Organisation for Economic Cooperation and Development (OECD) countries. **(Figures (i) and (ii))** Only four top performing (OECD) countries – Netherlands, United Kingdom, Sweden and Germany have consistently achieved a workplace fatal injury rate of less than 1.0 per 100,000 workers.

In 2024, workplace major injury rate was at its lowest at 15.9 major injuries per 100,000 workers (587 major injuries). This was an improvement from 16.1 per 100,000 workers in 2023 (590 major injuries), continuing the trend of sustained improvement in the past decade. **(Figure (iii))** However, the 2024 workplace fatal injury rate increased to 1.2 per 100,000 workers (43 fatalities<sup>1</sup>), from 0.99 in 2023 (36 fatalities), due to more fatalities in the Construction and Marine industries. This underscored the need for all stakeholders to consistently remain vigilant and prioritise WSH.

In terms of sectoral performance, Construction and Manufacturing continued to be the top contributors to workplace fatal and major injuries, with 166 (26%) and 125 (20%) fatal and major injuries respectively. **(Table (ii))** While relatively smaller in workforce size, the Marine industry saw its highest workplace fatal and major injury rate since 2018 (27.8) at 35.8 injuries per 100,000 workers in 2024.

For Construction, its fatal and major injury rate per 100,000 workers fell slightly from 31.9 in 2023 to 31.0 in 2024. By industry activity, while smaller scale works such as Addition & Alteration works and Renovation contributed to majority of fatal and major injuries for the sector (about six in 10 in 2024), these works improved from 111 injuries in 2023 to 103 in 2024. In contrast, larger scale (regular) construction worksites saw an uptick in injuries over the same period from 54 injuries in 2023 to 60 in 2024. **(Table (iii))**

For Manufacturing, its fatal and major injury rate per 100,000 workers saw substantial improvement from 36.3 in 2023 to 29.3 in 2024. In terms of industry activity, the top two leading industry with most injuries. Metalworking and Food & Beverages industry, each saw reduction in injuries from 2023 to 2024.

For Transportation & Storage, its fatal and major injury rate per 100,000 workers improved from 20.4 in 2023 to 18.4 in 2024, with improvements seen across both Type A and Type B incidents. **(Table (iv))**

For Marine, its fatal and major injury rate per 100,000 workers increased slightly from 35.3 in 2023 to 35.8 in 2024, driven by the increase in fatality rate over the same period from 0.0 in 2023 to 8.1 in 2024.

<sup>1</sup> Excluding Work-related Traffic Accidents (WRTA), there were 39 fatalities in 2024.

For the overall number of reported workplace injuries, there were a total of 22,157 injuries in 2024, 2.8% lower compared to 22,787 in 2023. The overall injury rate consequently decreased by 3.5% from 623 injuries per 100,000 workers in 2023 to 601 in 2024. (**Tables (v) and (vi)**)

There were 899 diagnosed Occupational Diseases (OD) in 2024, lower than 1,229 ODs in 2023. The number of ODs reported remained higher compared to the years prior to 2021 (**Figure 8a**) due to ongoing Enhanced Workplace Health Surveillance (WHS+) efforts since 2021, and increased awareness in reporting amongst doctors and employers. The drop in 2024 was attributed to the reduction in noise-induced deafness (NID) cases reported in 2024.

In 2024, there were 19 Dangerous Occurrences<sup>2</sup> (DO), unchanged from 2023 (19 cases). The majority of DOs continue to come from incidents involving Collapse/Failure of Structures and Equipment from the Construction and Manufacturing sectors.

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<sup>2</sup> Refer to the prescribed incidents with potential to cause serious damage, injury or death, such as crane collapse and explosion.



Figure (i): Number and rate of workplace fatal injuries, 2015-2024

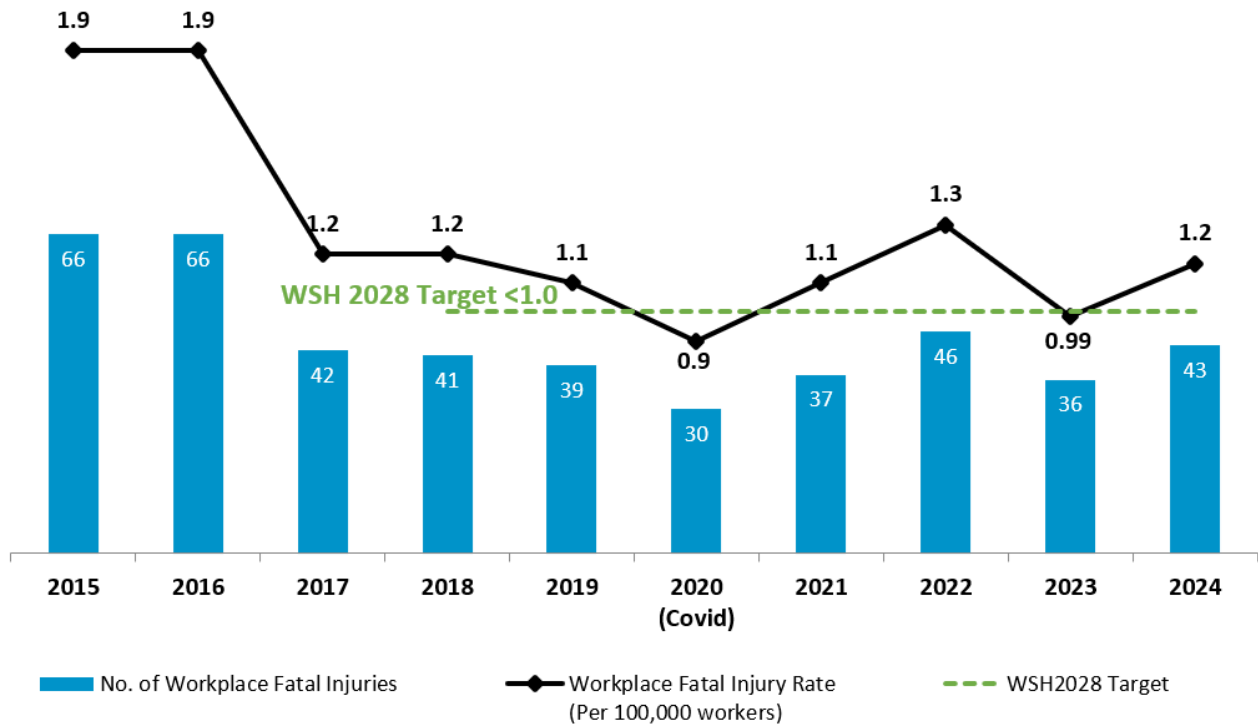
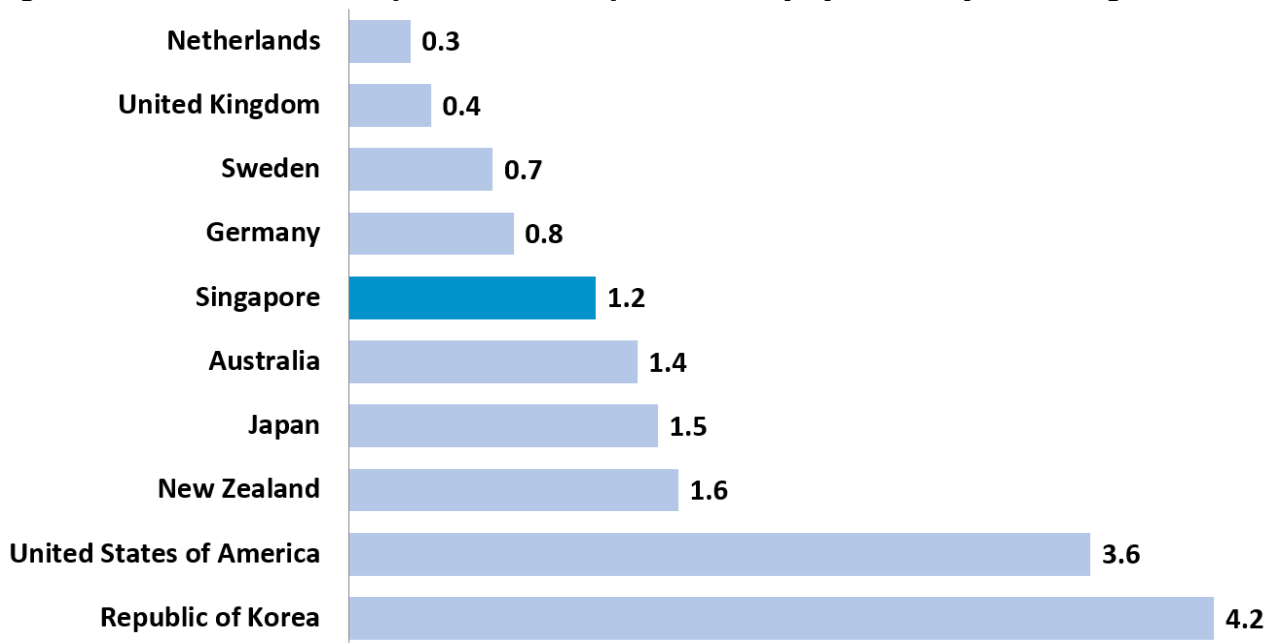


Figure (ii): International comparison of workplace fatal injury rate\* (3-year average)



\* Fatal injury rate per 100,000 workers.

**Source:** [1] International Labour Organization for data on the Netherlands, Sweden, Germany, 2020-2022; Japan, and the Republic of Korea, 2021-2023; [2] UK Health and Safety Executive for data on the United Kingdom, 2022-2024; [3] Safe Work Australia for data on Australia, 2021-2023; [4] Stats NZ Tatauranga Aotearoa for data on New Zealand, 2021-2023; [5] U.S. Bureau of Labor Statistics for data on the United States of America, 2021-2023.

Figure (iii): Number and rate of workplace major injuries, 2015-2024

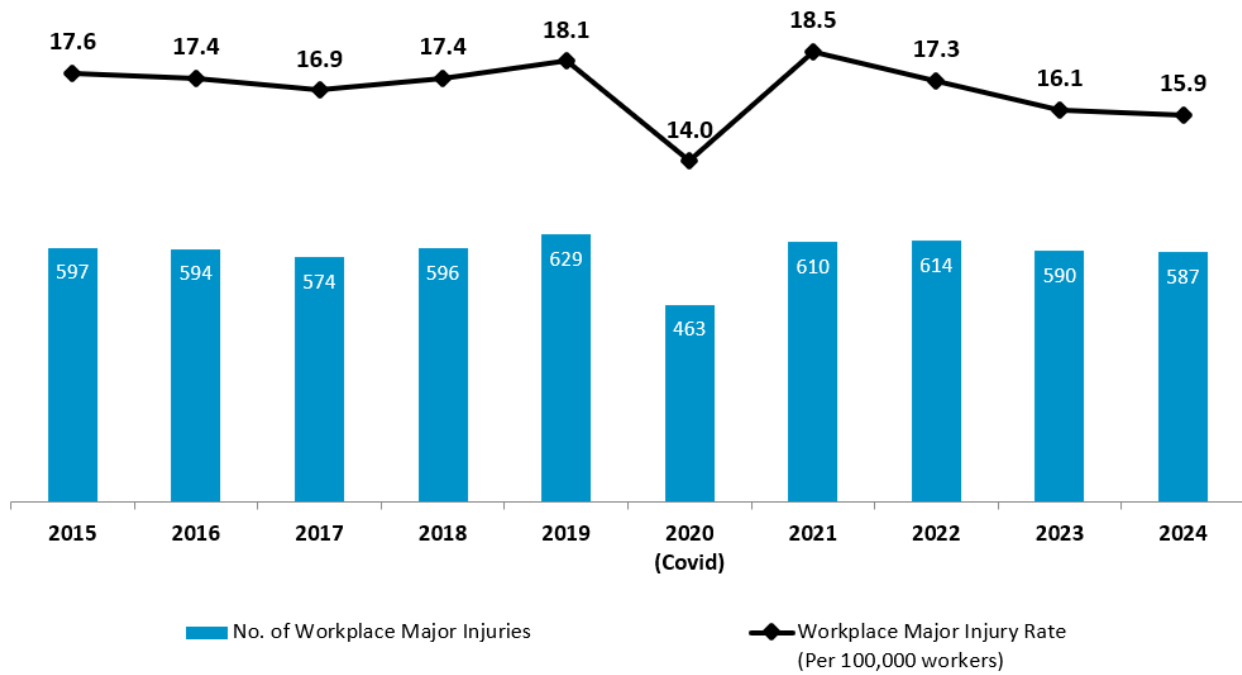


Table (i): Number of fatal and major injuries by incident risk type (Type A/B), 2023-2024

Incident Risk Type*	2023	2024
<b>Overall</b>	<b>626</b>	<b>630</b>
<b>Type A – Higher fatality risk</b>	234	249
<b>Type B – Lower fatality risk</b>	392	381

\* Details on Type A & Type B incident types are in **Annex C4**.

Table (ii): Number and rate of fatal and major injuries in key sectors, 2023-2024

Sector	Number of Fatal & Major Injuries (% of Total)		Fatal & Major Injury Rates (Per 100,000 workers)	
	2023	2024	2023	2024
<b>Overall</b>	<b>626 (100%)</b>	<b>630 (100%)</b>	<b>17.1</b>	<b>17.1</b>
Construction	167 (27%)	166 (26%)	31.9	31.0
Manufacturing	155 (25%)	125 (20%)	36.3	29.3
Transportation & Storage	55 (8.8%)	49 (7.8%)	20.4	18.4
Marine	22 (3.5%)	22 (3.5%)	35.3	35.8

Note: Percentages do not sum up to 100% as only selected sectors and industries are shown in table above.

Table (iii): Number of fatal and major injuries in key sectors by industry/ activity, 2023-2024

Sector	Industry/Activity	2023	2024
<b>Construction</b>	<b>Overall</b>	<b>167</b>	<b>166</b>
	Smaller Scale Works (e.g. Addition & Alteration works and Renovation)	111	103
	Regular Construction	54	60
	Work-related Traffic Accidents (WRTA)	2	3
	<b>Overall*</b>	<b>155</b>	<b>125</b>
<b>Manufacturing</b>	Metalworking	61	48
	Food & Beverages	38	33
	Non-Metallic Mineral Products	6	8
	Other Manufacturing <sup>^</sup>	8	8
<b>Transportation &amp; Storage</b>	<b>Overall</b>	<b>55</b>	<b>49</b>
	Work-related Traffic Accidents (WRTA)	7	3
	Excluding WRTA	48	46

\* Data do not sum up to sectoral overall as not all Manufacturing industries are featured in the table.

<sup>^</sup> Industries under Singapore Standard Industrial Classification 2020 with five digits starting with 32.

**Table (iv): Number of fatal and major injuries in key sectors by incident risk type (Type A/B), 2023-2024**

Sector	Incident Risk Type	2023	2024
<b>Construction</b>	<b>Overall</b>	<b>167</b>	<b>166</b>
	Type A	98	106
	Type B	69	60
	Leading Incident: Type A Falls from Height	37	44
<b>Manufacturing</b>	<b>Overall</b>	<b>155</b>	<b>125</b>
	Type A	47	34
	Type B	108	91
	Leading Incident: Type B Machinery Incidents	52	42
<b>Transportation &amp; Storage</b>	<b>Overall</b>	<b>55</b>	<b>49</b>
	Type A	30	28
	Type B	25	21
	Leading Incident: Type B Slips, Trips & Falls	19	12
<b>Marine</b>	<b>Overall</b>	<b>22</b>	<b>22</b>
	Type A	10	16
	Type B	12	6
	Leading Incident: Type B Slips, Trips & Falls	3	5

**Table (v): Number of workplace injuries, dangerous occurrences and occupational diseases, 2023-2024**

	2023			2024		
	Type A	Type B	Overall	Type A	Type B	Overall
<b>Total Workplace Injuries</b> <b>(Total Injuries [N]<sup>3</sup>)</b>	<b>4,024</b> <b>(6,765)</b>	<b>8,915</b> <b>(16,022)</b>	<b>12,939</b> <b>(22,787)</b>	<b>3,783</b> <b>(6,389)</b>	<b>8,273</b> <b>(15,768)</b>	<b>12,056</b> <b>(22,157)</b>
Fatal Injuries (from WRTA)	29 (4)	7 (n.a.)	36 (4)	38 (4)	5 (n.a.)	43 (4)
Major Injuries <sup>4</sup> (Major Injuries [N])	203 (205)	381 (385)	584 (590)	211 (211)	372 (376)	583 (587)
Minor Injuries <sup>4</sup> (Minor Injuries [N])	3,792 (6,531)	8,527 (15,630)	12,319 (22,161)	3,534 (6,140)	7,896 (15,387)	11,430 (21,527)
<b>Dangerous Occurrences</b>			<b>19</b>			<b>19</b>
<b>Occupational Diseases</b>			<b>1,229</b>			<b>899</b>

**Table (vi): Key safety and health indicators, 2023-2024**

	2023			2024		
	Type A	Type B	Overall	Type A	Type B	Overall
<b>Total Workplace Injury Rate</b> <b>(Injury Rate [N])</b>	<b>110</b> <b>(185)</b>	<b>244</b> <b>(438)</b>	<b>354</b> <b>(623)</b>	<b>103</b> <b>(173)</b>	<b>224</b> <b>(428)</b>	<b>327</b> <b>(601)</b>
Fatal Injuries	0.8	0.2	0.99	1.0	0.1	1.2
Major Injuries <sup>4</sup> (Major Injuries [N])	5.6 (5.6)	10.4 (10.5)	16.0 (16.1)	5.7 (5.7)	10.1 (10.2)	15.8 (15.9)
Minor Injuries <sup>4</sup> (Minor Injuries [N])	104 (179)	233 (428)	337 (606)	96 (167)	214 (418)	310 (584)
<b>Occupational Diseases Incidence Rate</b>			<b>33.6</b>			<b>24.4</b>
<b>Man-days Loss<sup>4</sup></b> <b>(Man-days Loss [N]<sup>3</sup>)</b>	<b>259,285</b> <b>(265,039)</b>	<b>222,173</b> <b>(237,121)</b>	<b>481,458</b> <b>(502,160)</b>	<b>310,285</b> <b>(315,925)</b>	<b>190,637</b> <b>(205,983)</b>	<b>501,202</b> <b>(521,908)</b>

Note: All rates are per 100,000 workers. Rates for Type A and Type B are rounded figures and may not add up to figures in overall rates.

<sup>3</sup> Following the amendments to the Work Injury Compensation Act (WICA) which took effect from September 2020, employers need to report all work injuries with any instance of medical leave or light duties. From January 2021, major and minor injury numbers include injuries with any instance of medical leave or light duties. Numbers presented under this new series are marked with [N].

<sup>4</sup> Prior to January 2021, workplace major and minor injury numbers only include injuries sustained by employees that resulted in four or more days of medical leave, or at least 24 hours of hospitalisation.

The main findings on the workplace safety and health performance for 2024 were:

### **WORKPLACE INJURIES**

- 43 workers were fatally injured, which translated to 1.2 fatalities per 100,000 workers.
- 587 workers sustained workplace major injuries, which translated to 15.9 injuries per 100,000 workers.
- [New Series] 21,527 workers sustained workplace minor injuries with any instance of medical leave or light duty, which was 584 injuries per 100,000 workers.
- 11,430 workers sustained workplace minor injuries with at least four days of medical leave or 24 hours of hospitalisation, which was 310 injuries per 100,000 workers.

### **DANGEROUS OCCURRENCES (DO)**

- 19 dangerous occurrences were reported to MOM in 2024.

### **OCCUPATIONAL DISEASES (OD)**

- There were 899 OD cases in 2024, with an incidence rate of 24.4 per 100,000 workers.
- The leading OD was Noise-induced Deafness (NID) with 519 cases, followed by Work-related Musculoskeletal Disorders (WRMSD) with 249 cases (including back injury cases due to ergonomic risks).

### **BUSINESS UNDER SURVEILLANCE (BUS)**

- Eight companies entered the Business under Surveillance (BUS) programme in 2024.

### **MEDICAL AND HYGIENE SURVEILLANCE**

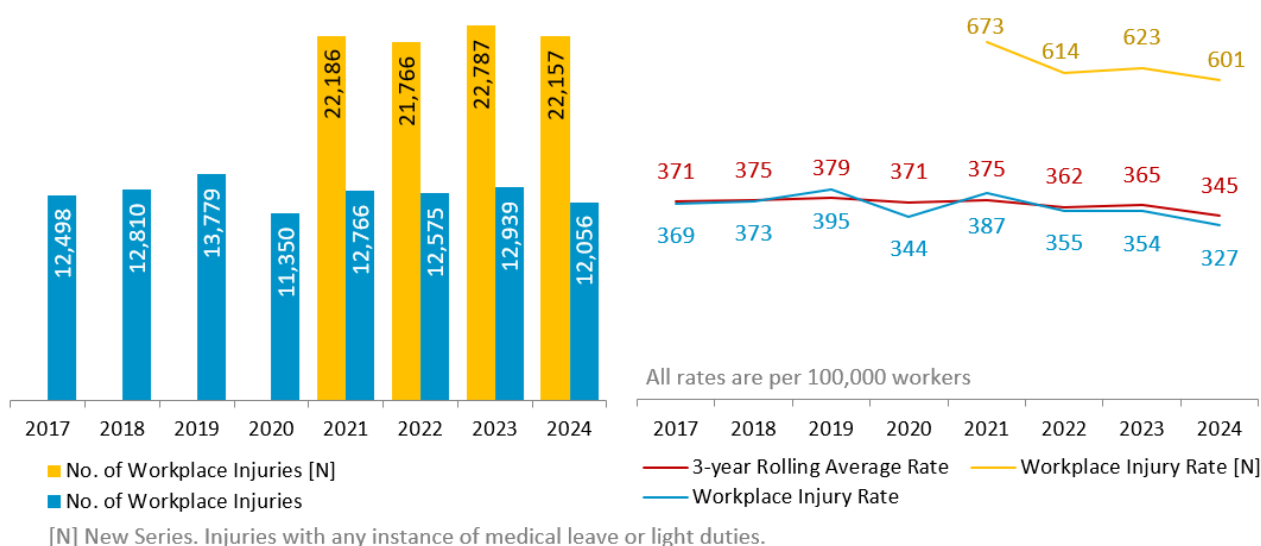
- 119,397 workers from 2,588 workplaces were monitored under the Medical Surveillance Programme.
  - Under the Hygiene Surveillance Programme, 77% of the workplaces had static noise levels greater than 85dBA.
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## OVERVIEW OF TRENDS

### TOTAL WORKPLACE INJURIES<sup>5</sup>

The overall number of reported<sup>6</sup> workplace injuries in 2024 was 22,157, 2.8% lower compared to 22,787 in 2023. The workplace injury rate consequently decreased by 3.5% from 623 injuries per 100,000 workers in 2023 to 601 in 2024. Similarly, the overall number of reported workplace injuries with at least four days of medical leave or 24 hours of hospitalisation, was 12,056 in 2024, 6.8% lower compared to 12,939 in 2023.

**Figure 1: Number and rate of total workplace injuries, 2017-2024**



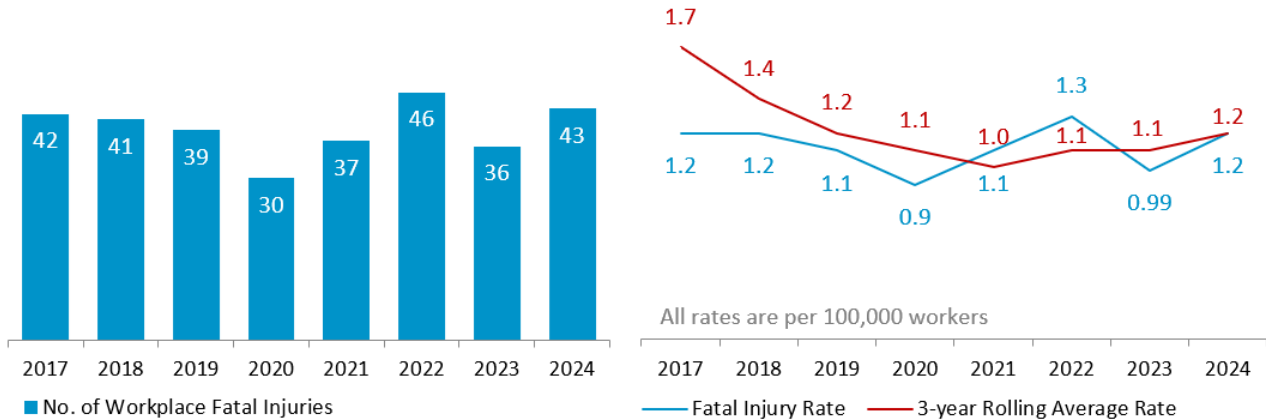
<sup>5</sup> Refer to Note (II) on Page 1 for changes to coverage for non-fatal injuries from 2021.

<sup>6</sup> Employer or Occupier has to report work incidents to the Ministry of Manpower under the WSH (Incident Reporting) Regulations.

## WORKPLACE FATAL INJURIES

There were 43 workplace fatal injuries in 2024, seven fatal injuries more compared to 36 in 2023. The workplace fatal injury rate rose to 1.2 fatal injuries per 100,000 workers in 2024.

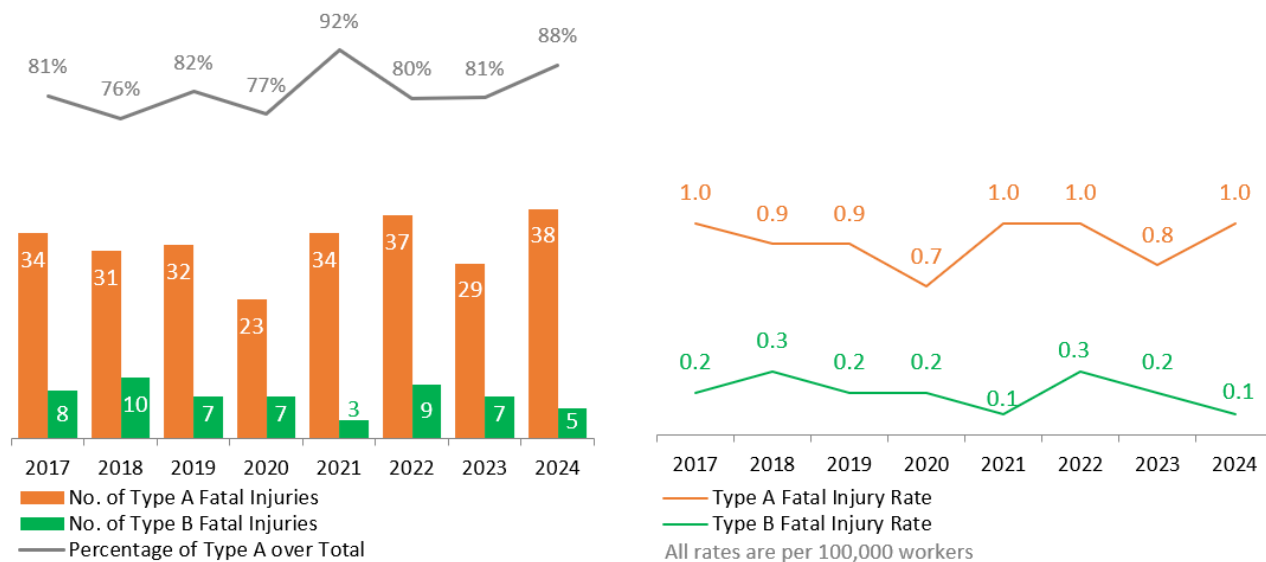
**Figure 2a: Number and rate of workplace fatal injuries, 2017-2024**



## CAUSES OF WORKPLACE FATAL INJURIES

Close to nine in 10 (88%) fatalities in 2024 were caused by Type A incidents which have higher risk of fatality.

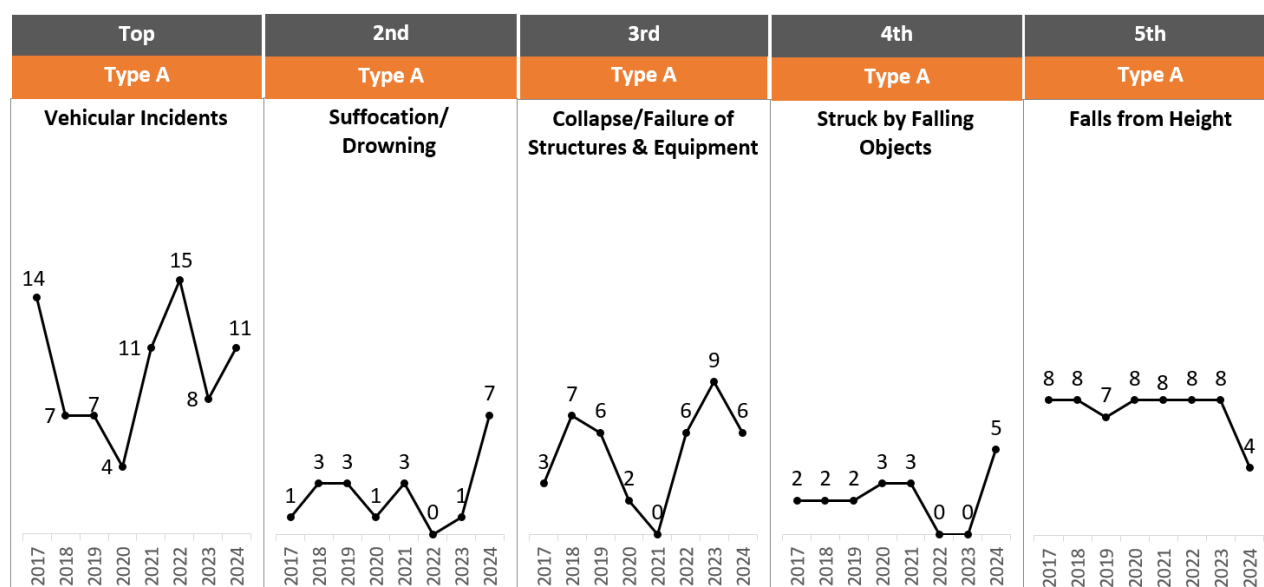
**Figure 2b: Number and rate of workplace fatal injuries by fatality risk, 2017-2024**





The top three causes of workplace fatalities in 2024 were Vehicular Incidents, Suffocation/Drowning, and Collapse/Failure of Structures & Equipment. These collectively accounted for 56% (24 fatal injuries) of the total number of workplace fatal injuries in 2024.

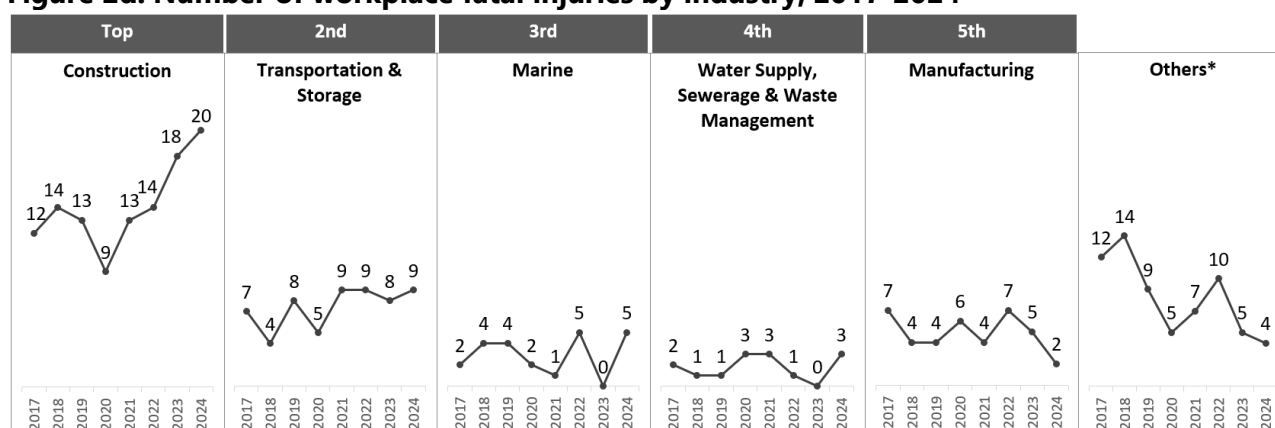
**Figure 2c: Number of workplace fatal injuries by cause of injury, 2017-2024**



## INDUSTRIES CONTRIBUTING TO WORKPLACE FATAL INJURIES

The Construction sector remained the top contributor in 2024 with 20 fatal injuries. This was followed by Transportation & Storage industry (nine fatal injuries) and Marine industry (five fatal injuries). These top three higher risk industries accounted for 79% of all fatal injuries in 2024.

**Figure 2d: Number of workplace fatal injuries by industry, 2017-2024**



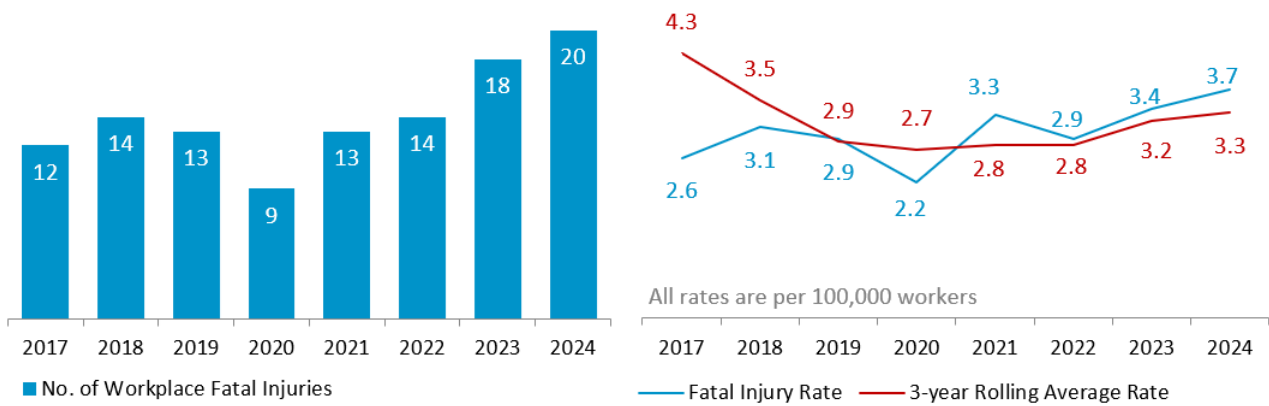
\*Others refer to the summation of various industries with lower incidence of workplace fatalities in recent years. For more information, please refer to the statistical tables in Annex B.

## WORKPLACE FATAL INJURIES BY INDUSTRY

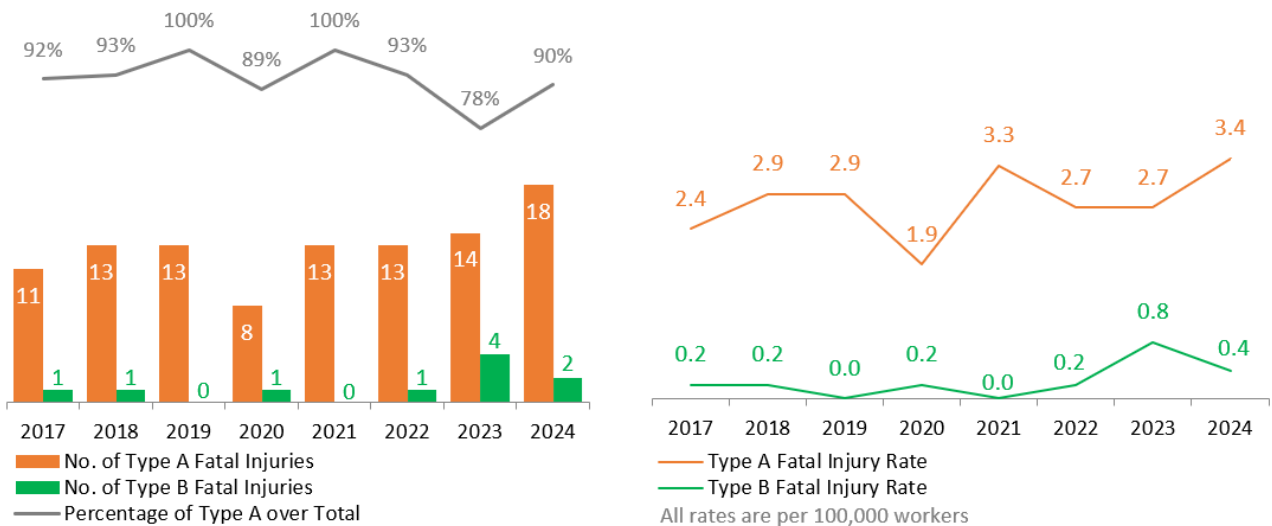
### CONSTRUCTION

There were 20 workplace fatal injuries in the Construction sector in 2024, two fatalities more than 2023. The workplace fatal injury rate increased from 3.4 fatal injuries per 100,000 workers in 2023 to 3.7 in 2024. Nine in 10 fatal injuries in 2024 were from Type A incidents which have higher risk of fatality.

**Figure 3a: Number and rate of workplace fatal injuries for Construction sector, 2017-2024**



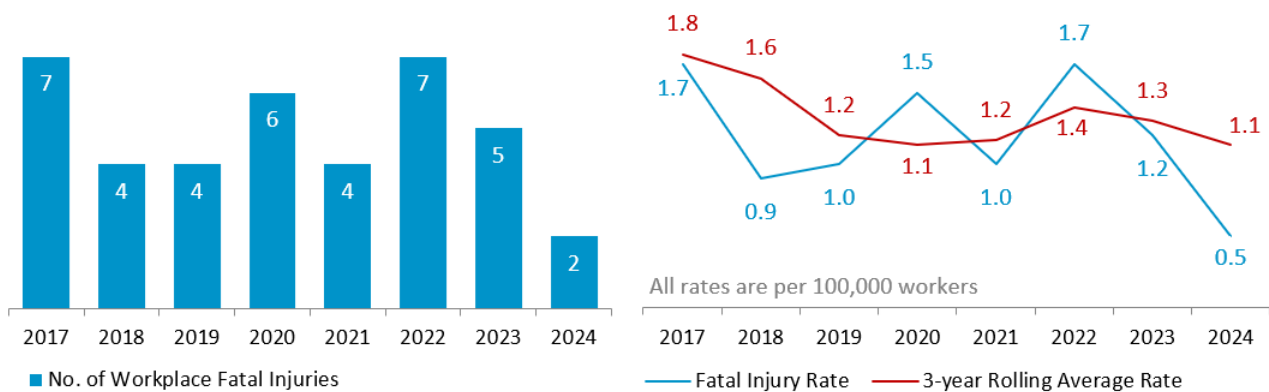
**Figure 3b: Number and rate of workplace fatal injuries for Construction sector by fatality risk, 2017-2024**



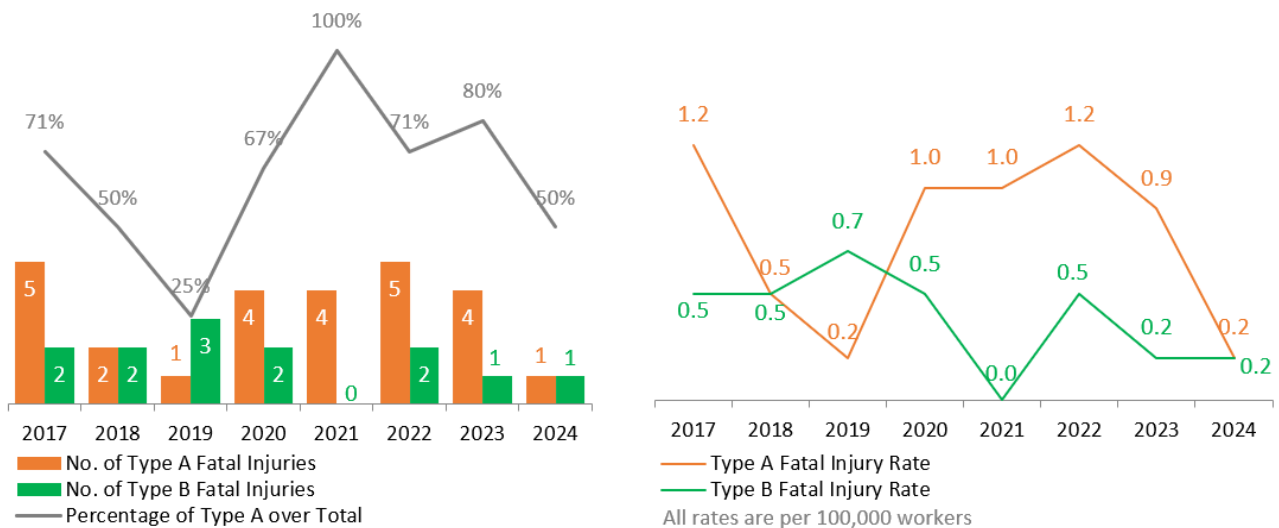
## MANUFACTURING

There were two workplace fatal injuries in the Manufacturing sector in 2024, three fatal injuries fewer than 2023. The workplace fatal injury rate declined from 1.2 fatal injuries per 100,000 workers in 2023 to 0.5 in 2024. One of the two fatal injuries in 2024 was caused by a Type A incident.

**Figure 3c: Number and rate of workplace fatal injuries for Manufacturing sector, 2017-2024**



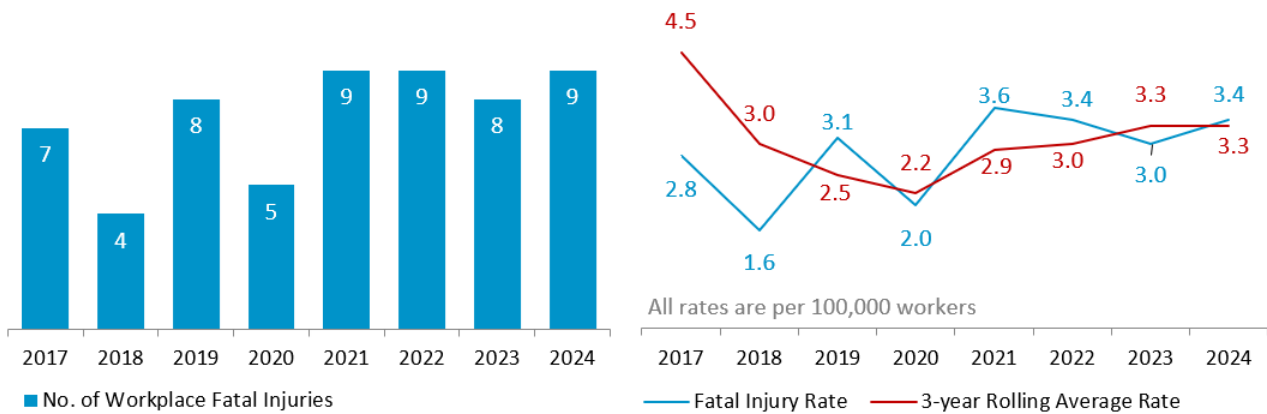
**Figure 3d: Number and rate of workplace fatal injuries for Manufacturing sector by fatality risk, 2017-2024**



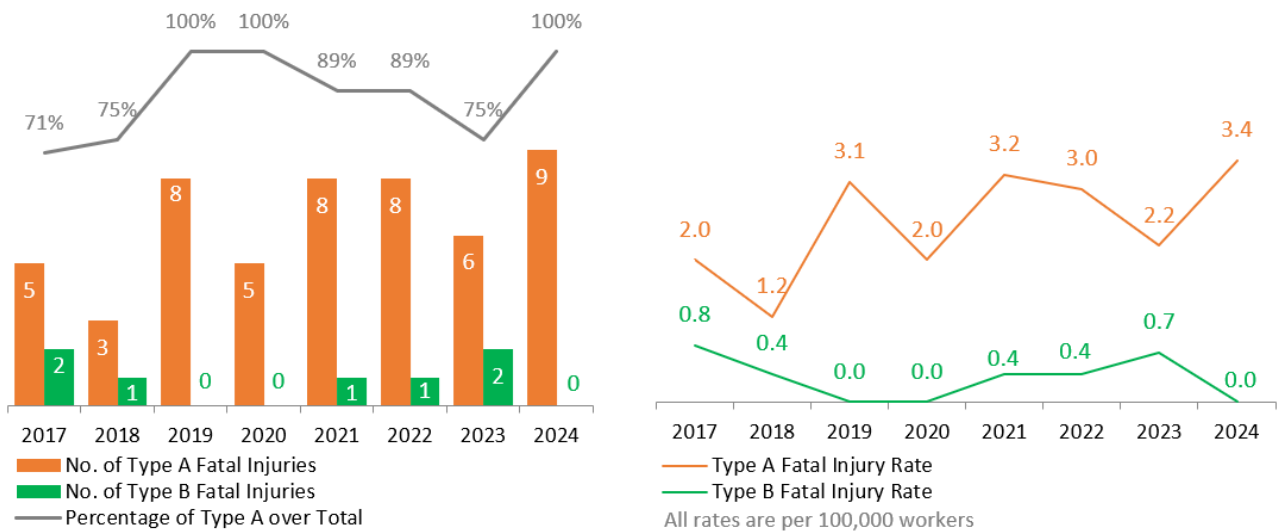
### TRANSPORTATION & STORAGE

There were nine workplace fatal injuries in the Transportation & Storage industry in 2024, one fatal injury more than 2023. The workplace fatal injury rate increased from 3.0 fatal injuries per 100,000 workers in 2023 to 3.4 in 2024. All nine fatal injuries in 2024 were from Type A incidents.

**Figure 3e: Number and rate of workplace fatal injuries for Transportation & Storage industry, 2017-2024**



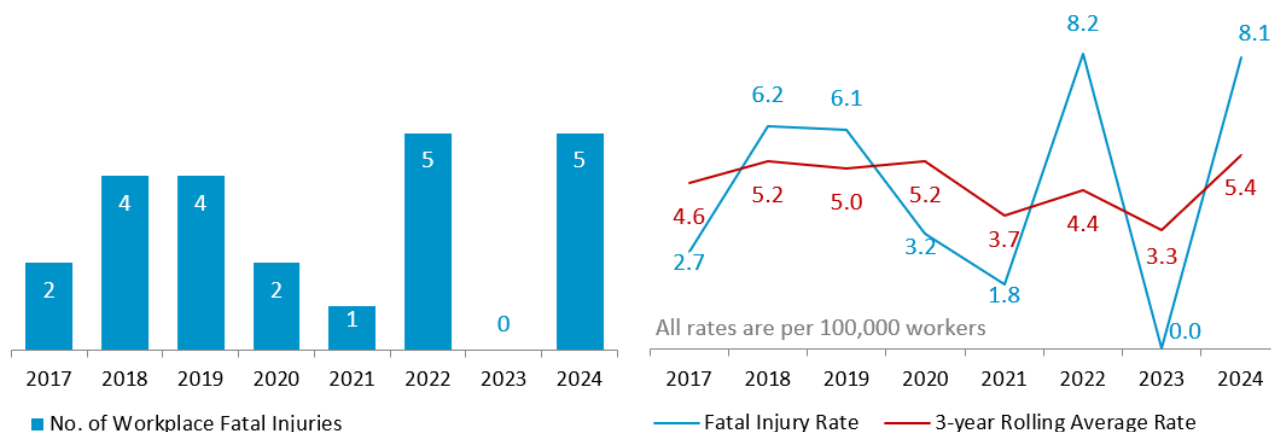
**Figure 3f: Number and rate of workplace fatal injuries for Transportation & Storage industry by fatality risk, 2017-2024**



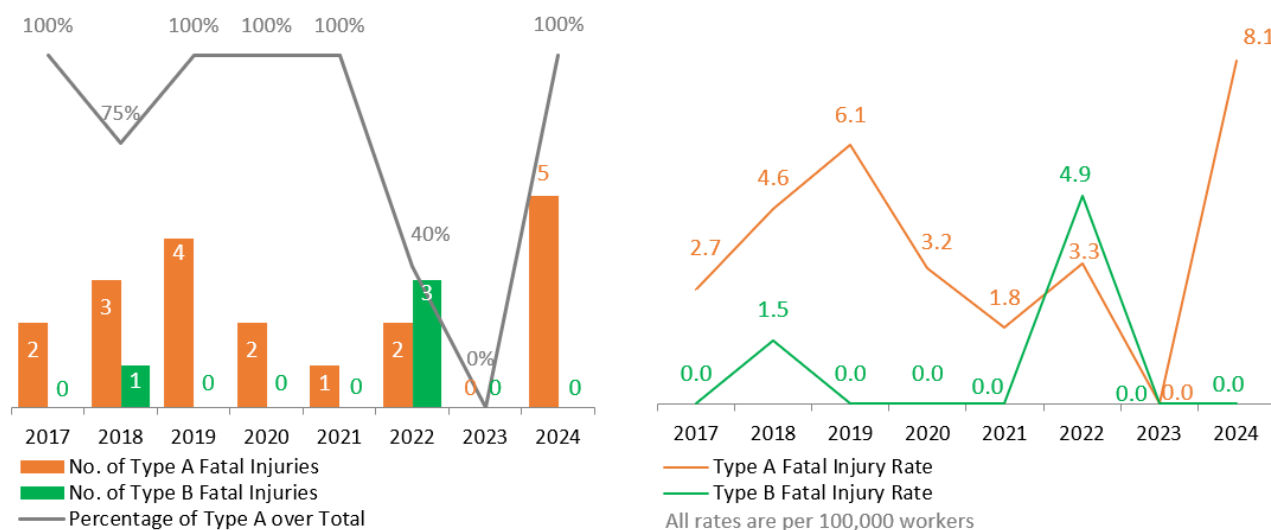
## MARINE

There were five workplace fatal injuries in the Marine industry<sup>7</sup> in 2024, a sharp increase from none in 2023. The workplace fatal injury rate consequently rose from 0.0 in 2023 to 8.1 fatal injuries per 100,000 workers in 2024. All five fatal injuries in 2024 were from Type A incidents.

**Figure 3g: Number and rate of workplace fatal injuries for Marine industry, 2017-2024**



**Figure 3h: Number and rate of workplace fatal injuries for Marine industry by fatality risk, 2017-2024**



<sup>7</sup> The marine industry includes the following activities:

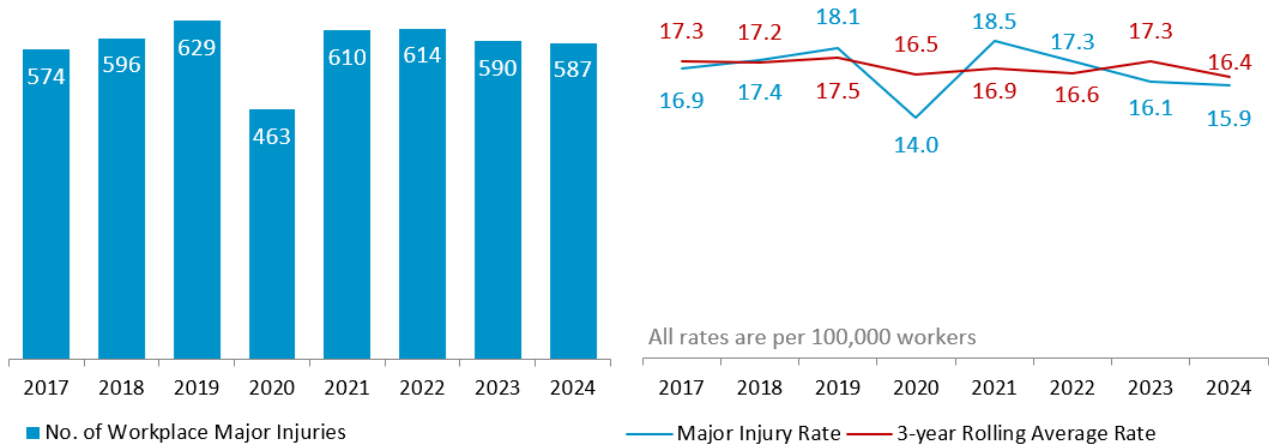
- Shipbuilding and Ship Repair
- Marine Surveying Services (other than classification societies)
- Salvaging of distressed vessels and cargo

Works carried out in the anchorage are also included.

## WORKPLACE MAJOR INJURIES

There were 587 workplace major injuries in 2024, fewer than 590 injuries in 2023. Consequently, the major injury rate declined from 16.1 major injuries per 100,000 workers in 2023 to 15.9 in 2024.

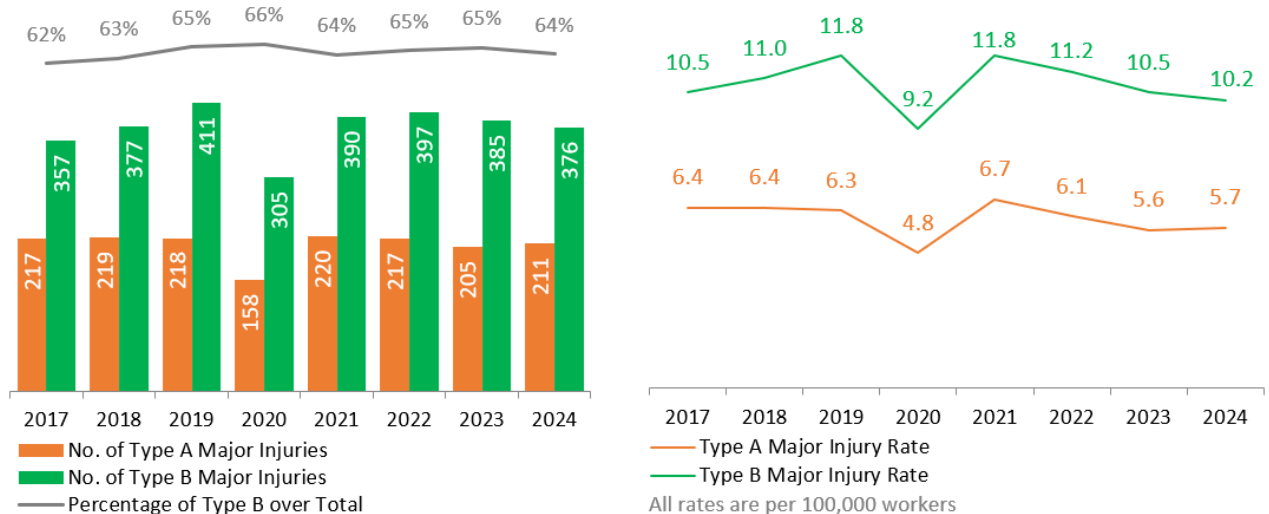
**Figure 4a: Number and rate of workplace major injuries, 2017-2024**



## CAUSES OF WORKPLACE MAJOR INJURIES

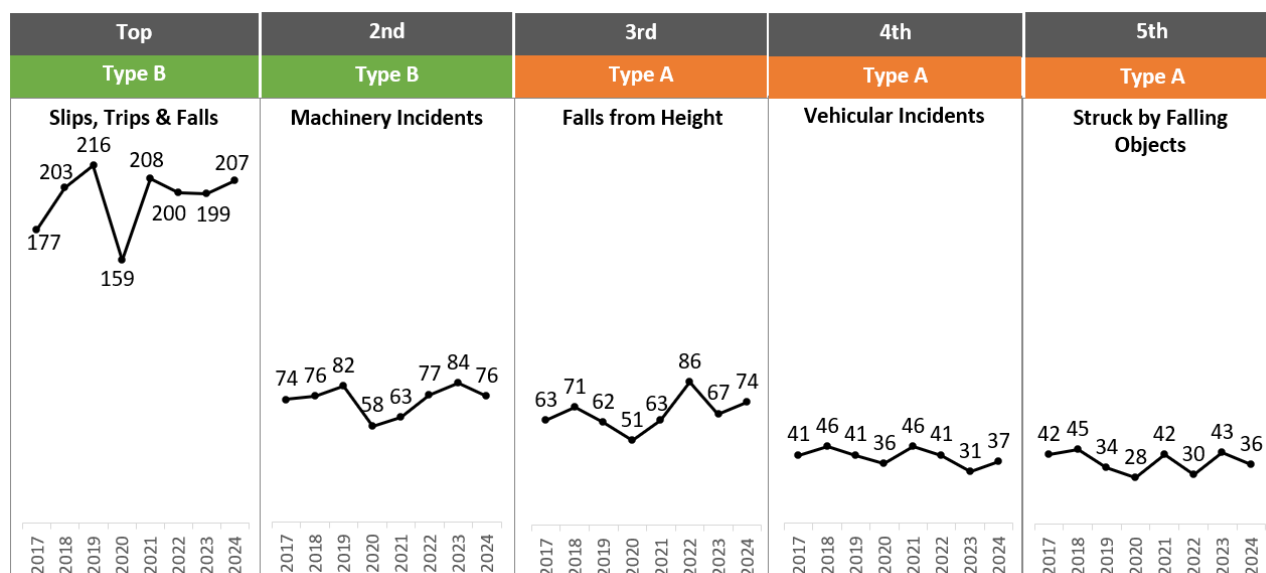
Incidents with lower fatality risk (Type B) formed 64% of all major injuries in 2024. Type B major injury rate fell from 10.5 major injuries per 100,000 workers in 2023 to 10.2 in 2024. However, Type A major injury rate rose slightly from 5.6 to 5.7 per 100,000 workers over the same period.

**Figure 4b: Number and rate of workplace major injuries by fatality risk, 2017-2024**



The top three causes of workplace major injuries were (i) Slips, Trips & Falls; (ii) Machinery Incidents; and (iii) Falls from Height. These collectively accounted for 61% (357 injuries) of the total number of workplace major injuries in 2024.

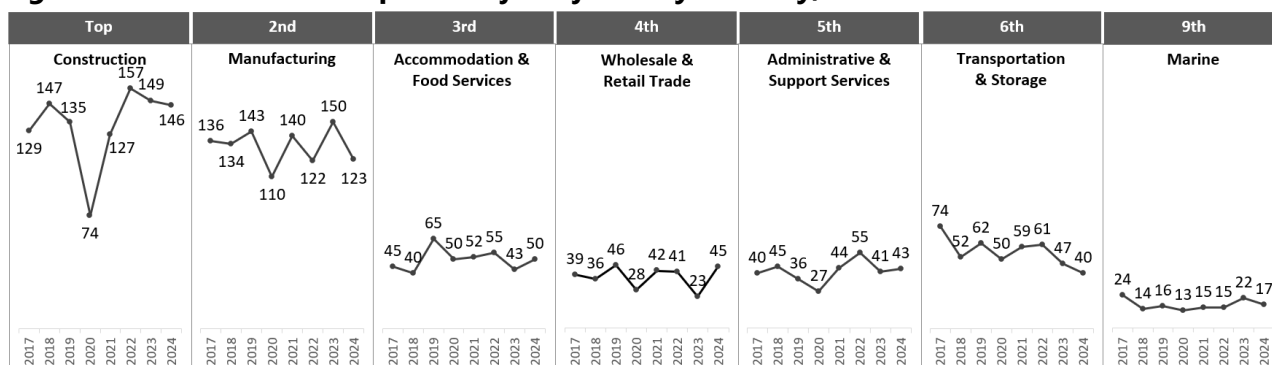
**Figure 4c: Number of workplace major injuries by cause of injury, 2017-2024**



## INDUSTRIES CONTRIBUTING TO WORKPLACE MAJOR INJURIES

In 2024, the top contributing sector for major injuries was the Construction sector with 146 major injuries, followed by the Manufacturing sector with 123 major injuries. These top two contributing sectors collectively accounted for 46% (269 injuries) of the total major injuries in 2024.

**Figure 4d: Number of workplace major injuries by industry, 2017-2024**

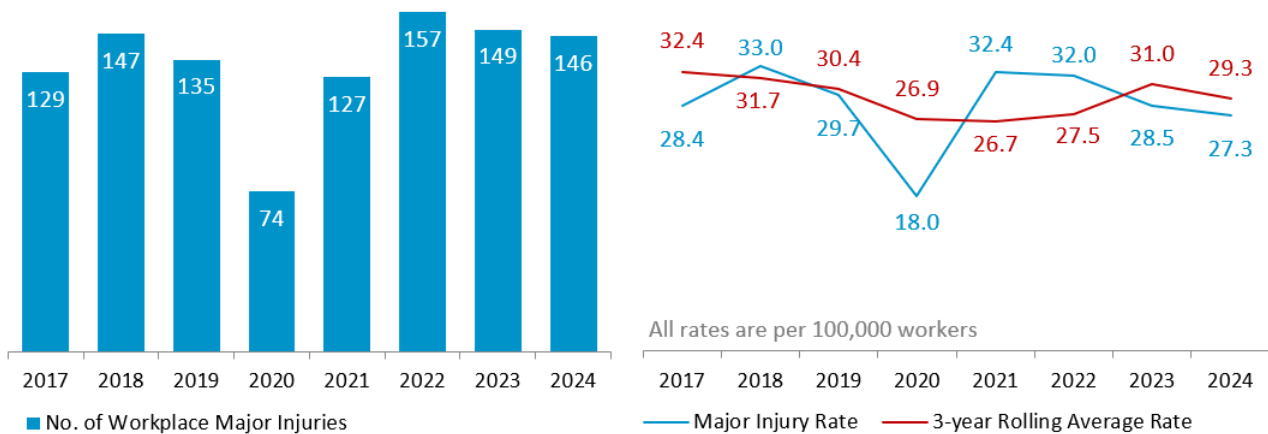


## WORKPLACE MAJOR INJURIES BY INDUSTRY

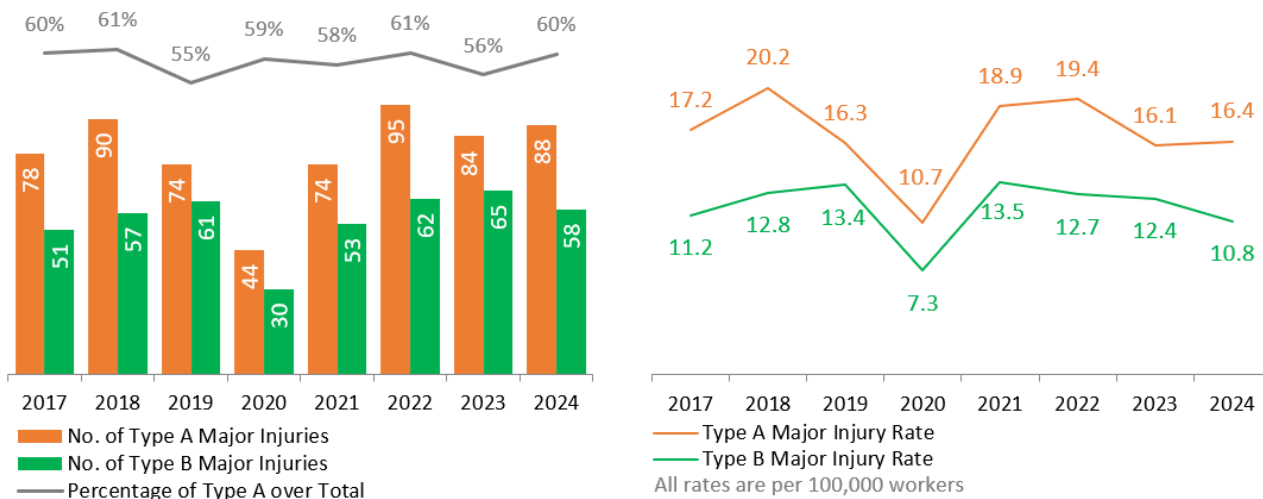
### CONSTRUCTION

There were 146 workplace major injuries in the Construction sector in 2024, three major injuries fewer compared to 2023. The workplace major injury rate for the sector fell from 28.5 major injuries per 100,000 workers in 2023 to 27.3 in 2024. Being a high-risk sector, major injuries were dominated by Type A incidents.

**Figure 5a: Number and rate of workplace major injuries for Construction sector, 2017-2024**



**Figure 5b: Number and rate of workplace major injuries for Construction sector by fatality risk, 2017-2024**

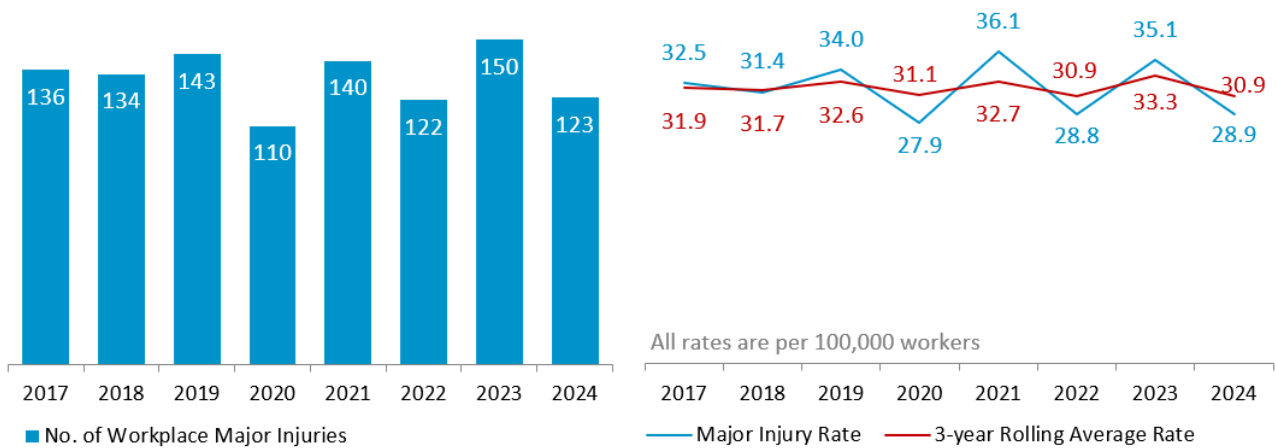




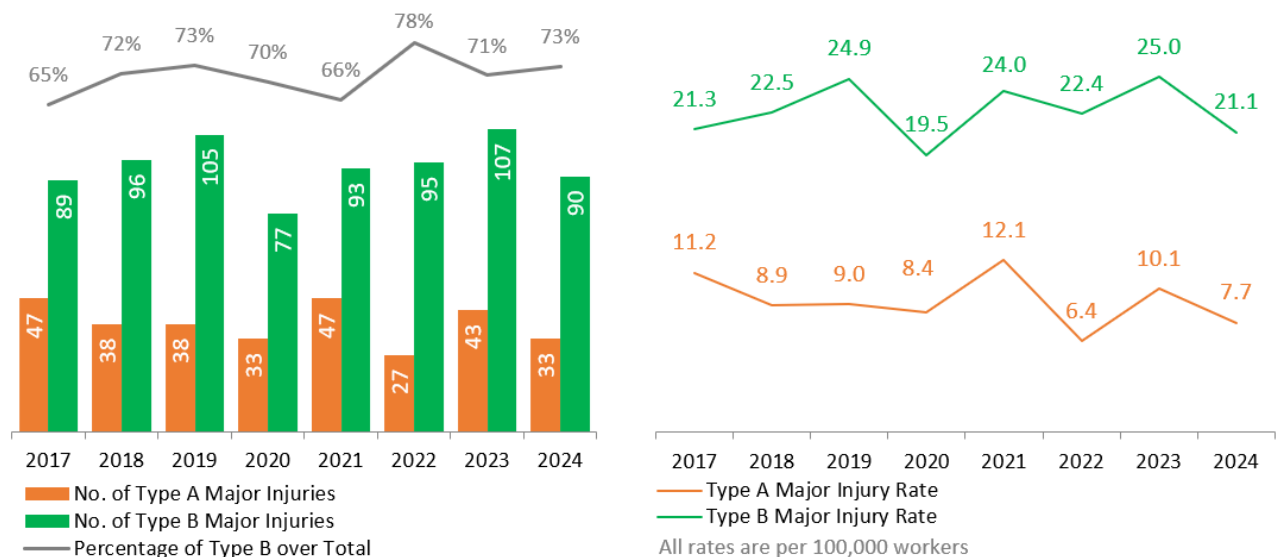
## MANUFACTURING

There were 123 workplace major injuries in the Manufacturing sector in 2024, 18% (27 injuries) fewer major injuries than 2023. Consequently, the workplace major injury rate decreased from 35.1 major injuries per 100,000 workers in 2023 to 28.9 in 2024. Majority of the major injuries from the sector were contributed by Type B incidents with lower fatality risk.

**Figure 5c: Number and rate of workplace major injuries for Manufacturing sector, 2017-2024**



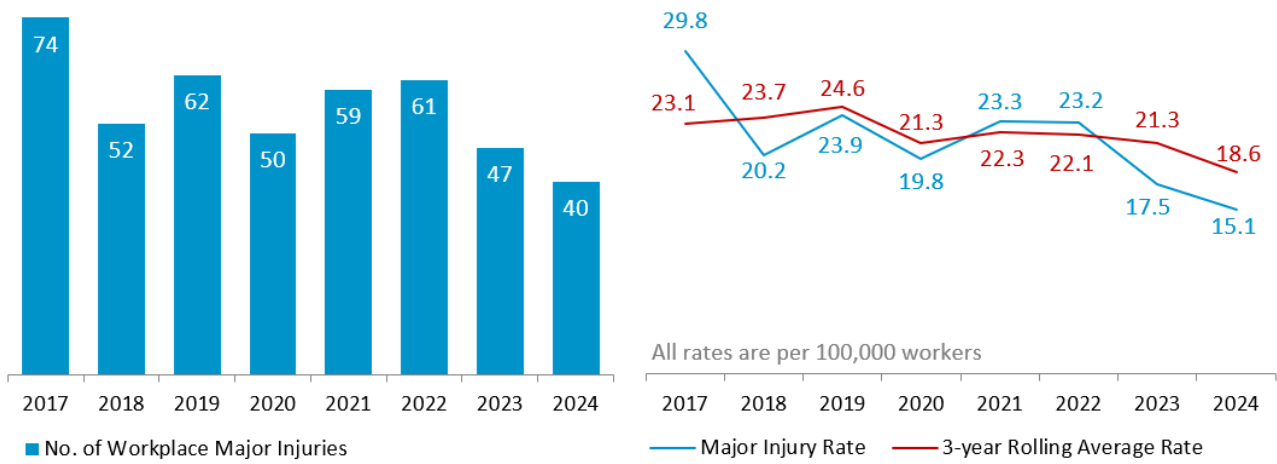
**Figure 5d: Number and rate of workplace major injuries for Manufacturing sector by fatality risk, 2017-2024**



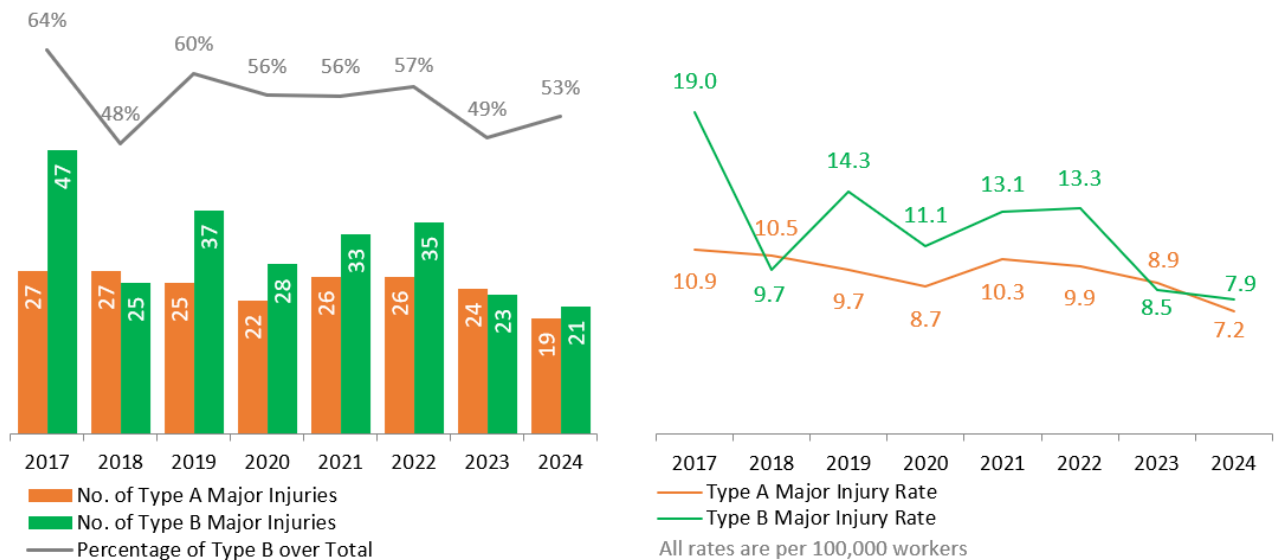
## TRANSPORTATION & STORAGE

There were 40 workplace major injuries in the Transportation & Storage industry in 2024, seven major injuries fewer than 2023. The workplace major injury rate decreased from 17.5 major injuries per 100,000 workers in 2023 to 15.1 in 2024. Slightly more than half of the major injuries came from Type B incidents with lower fatality risk, in 2024.

**Figure 5e: Number and rate of workplace major injuries for Transportation & Storage industry, 2017-2024**



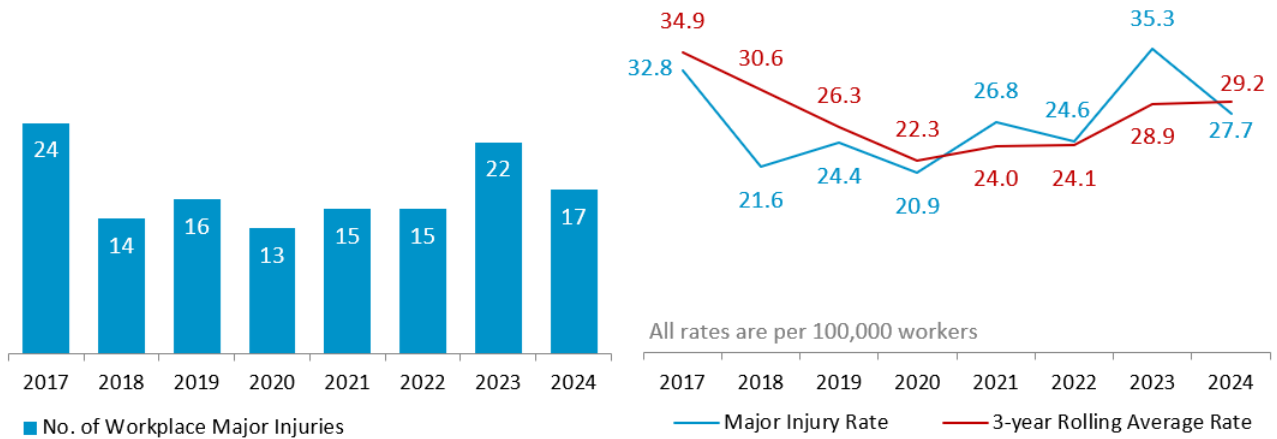
**Figure 5f: Number and rate of workplace major injuries for Transportation & Storage industry by fatality risk, 2017-2024**



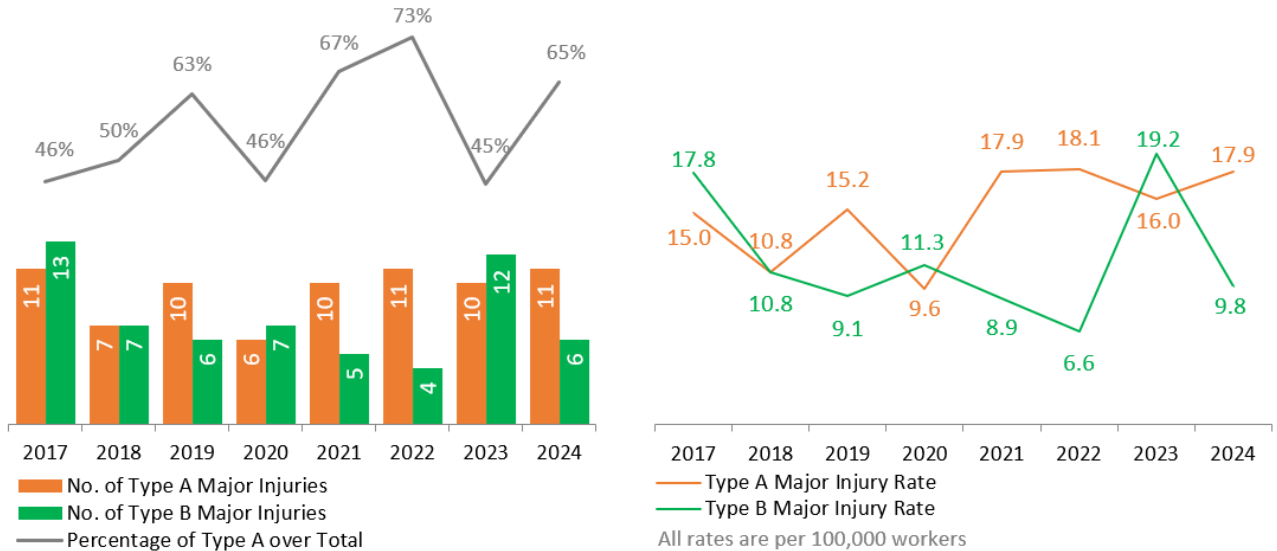
## MARINE

There were 17 workplace major injuries in the Marine industry in 2024, five injuries fewer compared to 2023. The workplace major injury rate decreased from 35.3 major injuries per 100,000 workers in 2023 to 27.7 in 2024. Majority of the major injuries were contributed by Type A incidents with higher fatality risk.

**Figure 5g: Number and rate of workplace major injuries for Marine industry, 2017-2024**



**Figure 5h: Number and rate of workplace major injuries for Marine industry by fatality risk, 2017-2024**

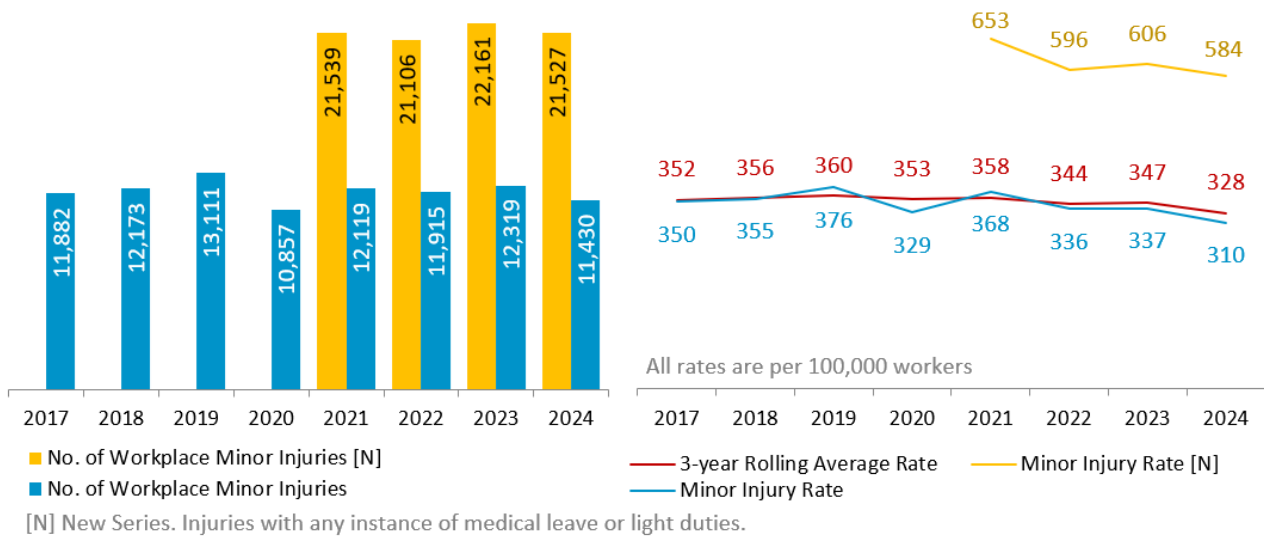


## WORKPLACE MINOR INJURIES

Under the new series [N] (any instance of medical leave or light duties), the overall number of reported minor injuries in 2024 was 21,527, 2.9% lower compared to 22,161 in 2023. The corresponding minor injury rate for 2024 was at 584 injuries per 100,000 workers, 3.6% lower than 606 in 2023.

Based on the former series (four or more days of medical leave, or at least 24 hours of hospitalisation only), there were 11,430 minor injuries in 2024, 7.2% lower compared to 12,319 in 2023. The corresponding minor injury rate in the former series was similarly lower in 2024 compared to 2023.

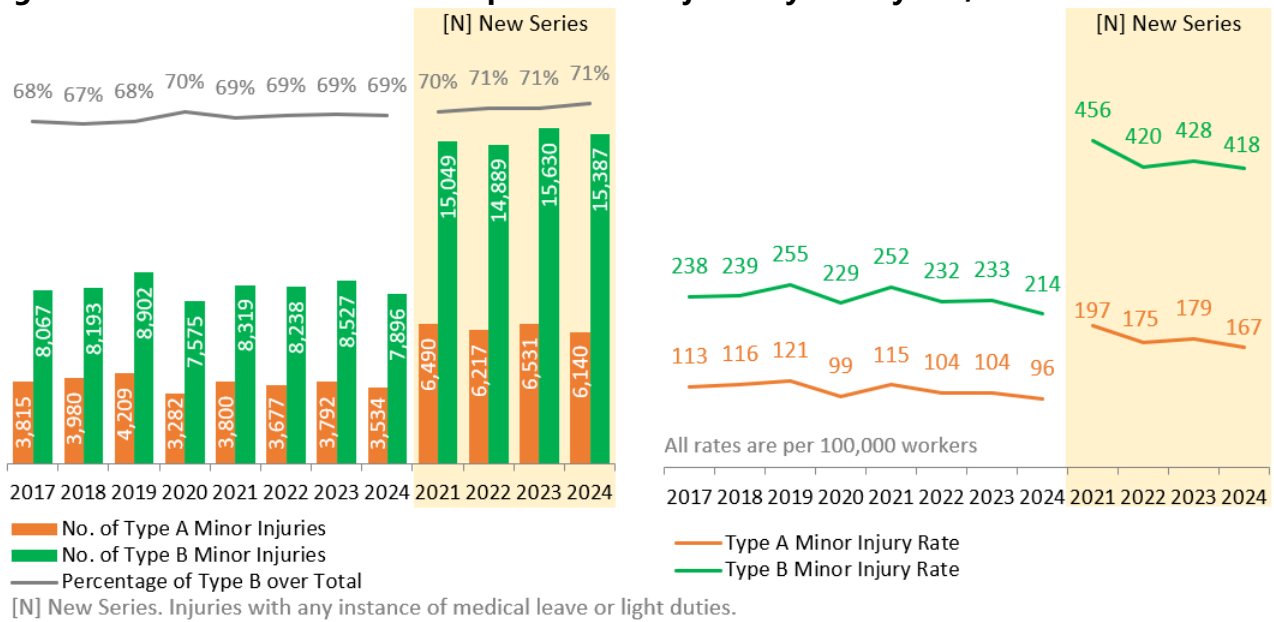
**Figure 6a: Number and rate of workplace minor injuries, 2017-2024**



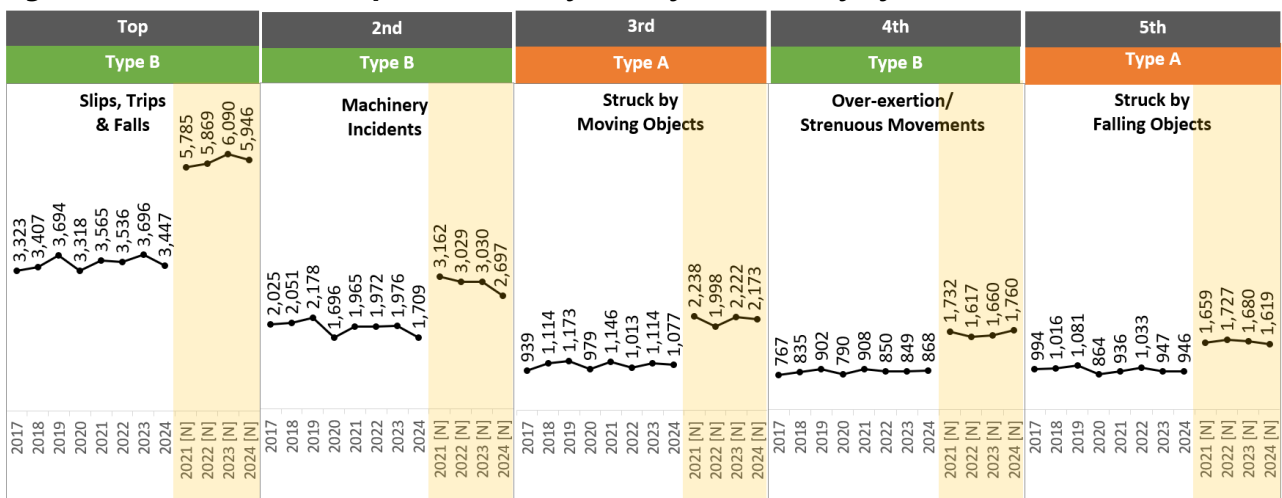
## CAUSES OF WORKPLACE MINOR INJURIES

Minor injury numbers and rates from both Type A and Type B incidents have decreased in 2024 compared to 2023. Type B incidents formed about 71% of all minor injuries in 2024. Slips, Trips & Falls, Machinery Incidents, and Struck by Moving Objects remained the top three leading causes of minor injuries, accounting for 50% (10,816 injuries) of all minor injuries in 2024.

**Figure 6b: Number and rate of workplace minor injuries by fatality risk, 2017-2024**



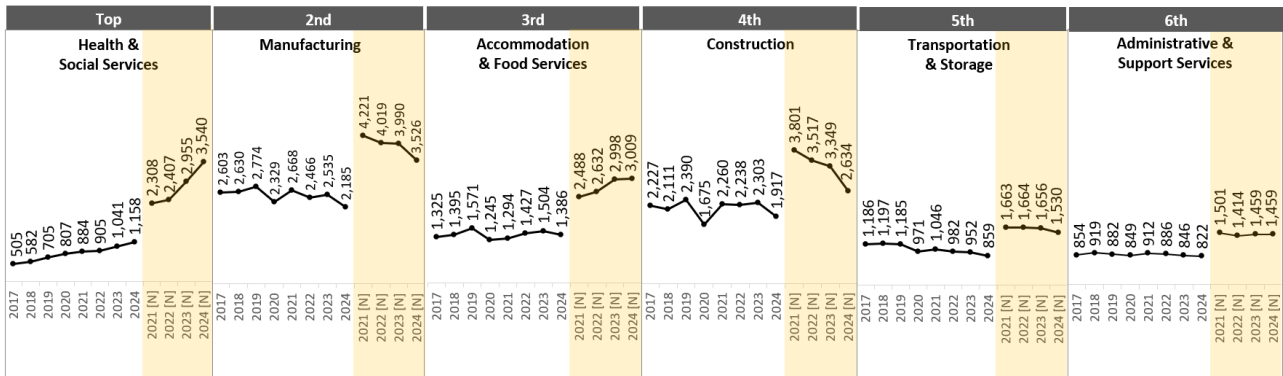
**Figure 6c: Number of workplace minor injuries by cause of injury, 2017-2024**



### INDUSTRIES CONTRIBUTING TO WORKPLACE MINOR INJURIES

With the new series, the top four leading industries were Health & Social Services (3,540), Manufacturing (3,526), Accommodation & Food Services (3,009) and Construction (2,634). These industries accounted for 59% (12,709 injuries) of all minor injuries in 2024.

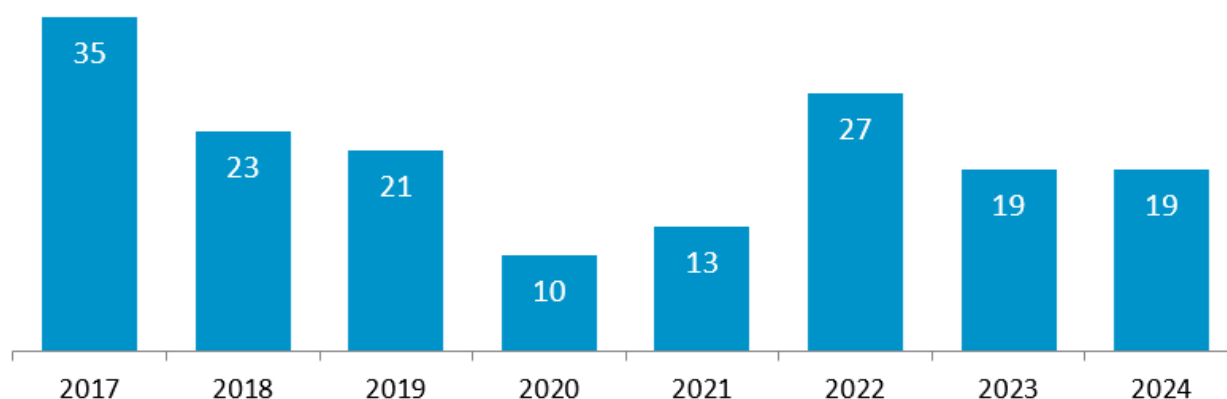
**Figure 6d: Number of workplace minor injuries by industry, 2017-2024**



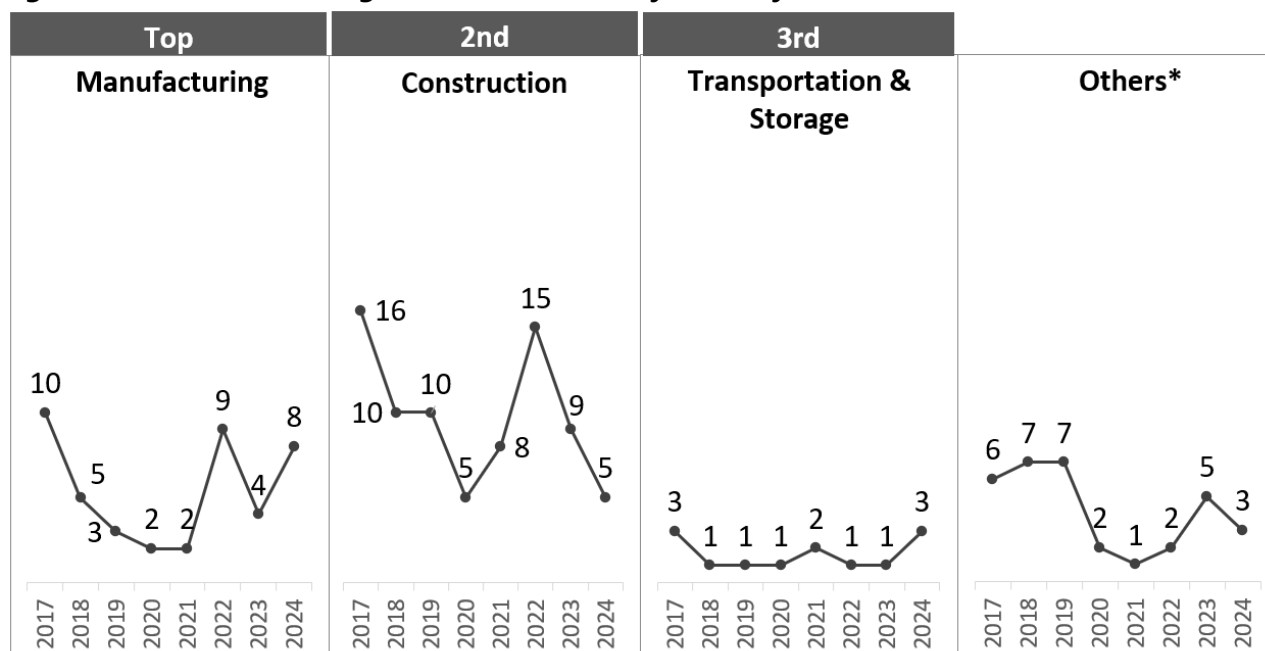
## DANGEROUS OCCURRENCES (DO)

There were 19 cases of DOs reported to MOM in 2024, the same number as 2023. Amongst the DO cases, 14 cases involved Collapse/Failure of Structures & Equipment, and five cases involved Fires & Explosion. In 2024, Manufacturing was the top contributor accounting for 42% (eight cases) of the total number of DO cases. The second top contributing sector was Construction at 26% (five cases).

**Figure 7a: Number of dangerous occurrences, 2017-2024**



**Figure 7b: Number of dangerous occurrences by industry, 2017-2024**

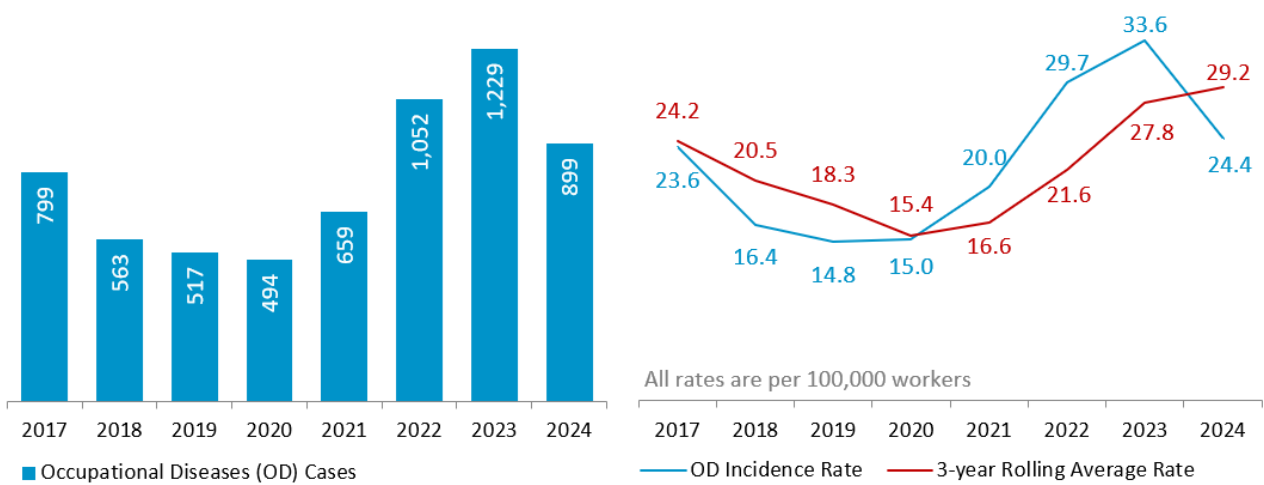


\*Others refer to the summation of various industries with lower incidence of DOs in recent years. For more information, please refer to the statistical tables in Annex B.

## OCCUPATIONAL DISEASES (OD)

There were 899 cases of ODs in 2024, fewer cases compared to the 1,229 cases in 2023. The OD incidence rate consequently decreased from 33.6 cases per 100,000 workers in 2023 to 24.4 in 2024. The higher OD numbers and rates since 2021 was driven by the rise in reported Noise-induced Deafness (NID) cases due to the ongoing Enhanced Workplace Health Surveillance (WHS+) efforts and increased awareness in reporting amongst doctors and employers.

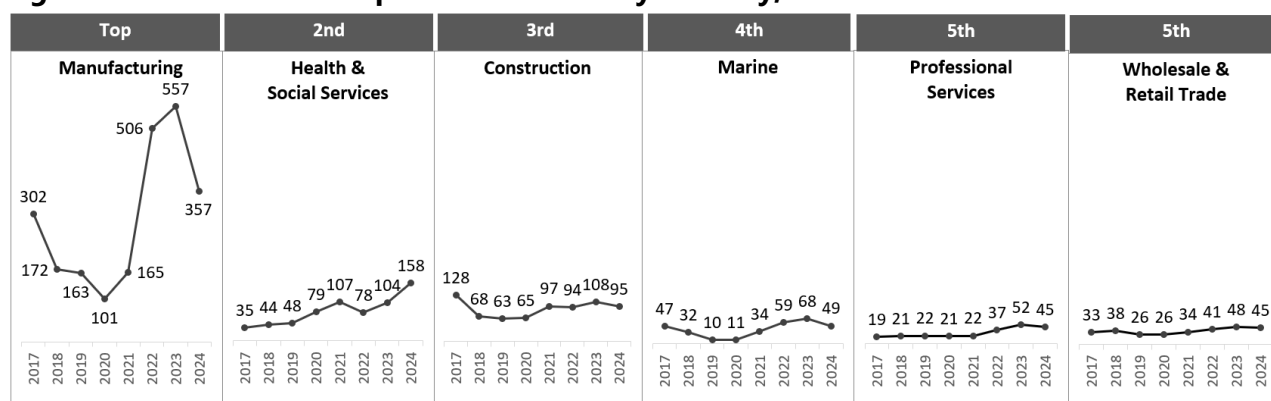
**Figure 8a: Number and rate of occupational diseases, 2017-2024**





Manufacturing remained the top contributor in 2024 with 357 OD cases, followed by Health & Social Services and Construction with 158 and 95 cases, respectively. These industries collectively accounted for 68% (610 cases) of all OD cases in 2024.

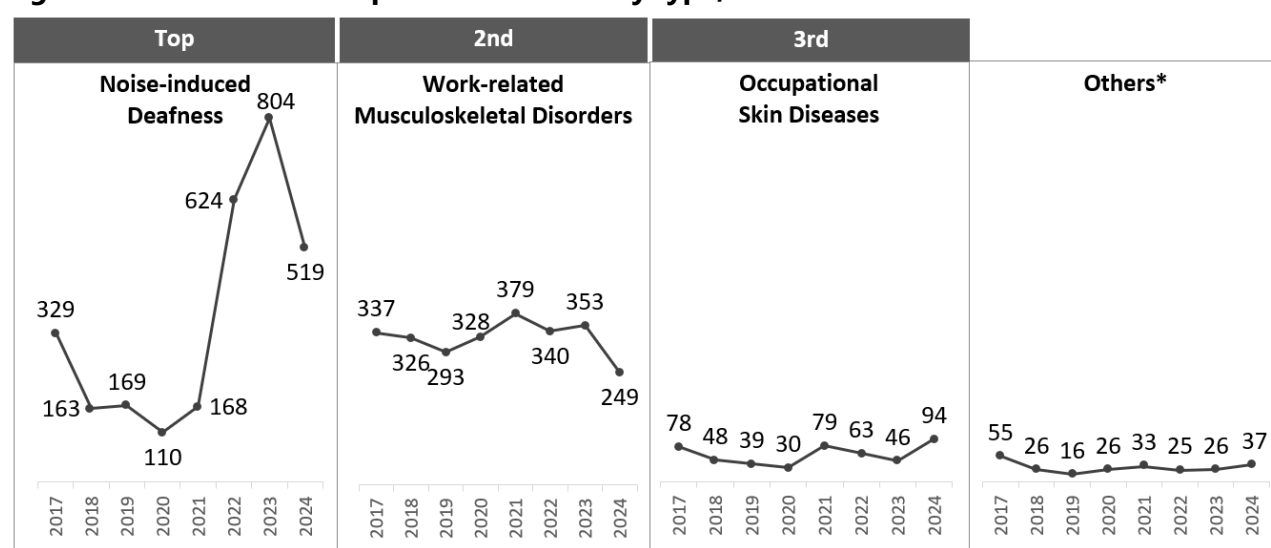
**Figure 8b: Number of occupational diseases by industry, 2017-2024**



## TYPES OF OCCUPATIONAL DISEASES

The top two types of OD cases were Noise-induced Deafness and Work-related Musculoskeletal Disorders<sup>8</sup>, collectively accounting for 85% (768 cases) of all OD cases in 2024. In 2024, NID cases declined sharply by 35% to 519 from the high of 804 in 2023.

**Figure 8c: Number of occupational diseases by type, 2017-2024**



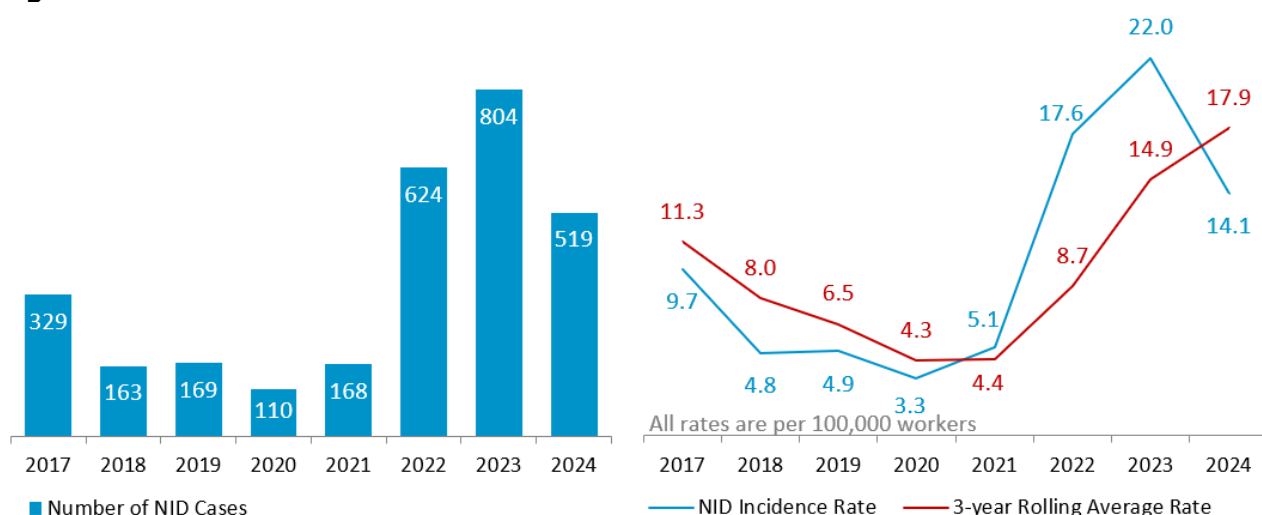
\*Others refer to the summation of various OD types with lower incidence in recent years. For more information, please refer to the statistical tables in Annex B.

<sup>8</sup> Back injuries due to ergonomic risks were considered as Work-related Musculoskeletal Disorders and included as an occupational disease since 2013.

## NOISE-INDUCED DEAFNESS (NID)

There were 519 NID cases in 2024. Though there were fewer NID cases reported in 2024 compared with 2023, the higher numbers since 2021 was due to the ongoing Enhanced Workplace Health Surveillance (WHS+) efforts and increased awareness in reporting amongst doctors and employers. Manufacturing continued to be the top contributor to NID cases, accounting for 61% (318 cases) of all NID cases. This was followed by Construction with 12% (60 cases).

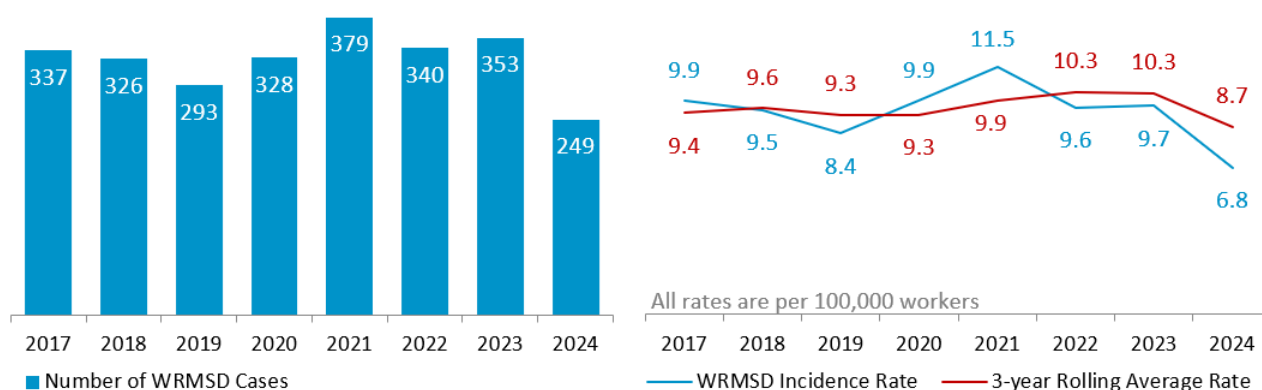
**Figure 8d: Number and rate of noise-induced deafness, 2017-2024**



## WORK-RELATED MUSCULOSKELETAL DISORDERS (WRMSD)

WRMSD cases decreased from 353 cases in 2023 to 249 cases in 2024. The top contributing industry was Health & Social Services, accounting for 26% (64 cases) of all WRMSD cases, followed by Accommodation & Food Services (14%, 36 cases) and Manufacturing (13%, 32 cases).

**Figure 8e: Number and rate of work-related musculoskeletal disorders, 2017-2024**



## WORK INJURY COMPENSATION

The Work Injury Compensation Act (WICA) enables employees to make claims for work-related injuries or diseases without having to file a civil suit under common law. It is a low-cost and faster alternative to common law for settling compensation claims.

### NUMBER OF WORK INJURY CLAIMS AND PAYOUT AMOUNT AWARDED

The total number of work injury claims<sup>9</sup> awarded decreased marginally by 0.57% from 26,998 cases in 2023 to 26,843 cases in 2024. The decrease was mainly from the decrease in number of Temporary Incapacity claims in 2024. The total compensation payout<sup>10</sup> awarded also decreased by 3.9% from \$143.75 million in 2023 to \$138.20 million in 2024.

**Table 1a: Number of TI and PI work injury compensation claims and amount awarded, 2022-2024**

	Temporary Incapacity (TI) <sup>11</sup>		Permanent Incapacity (PI) <sup>12</sup>		
Year	No. of cases	MC Wages (\$million)	No. of cases	MC Wages (\$million)	PI Compensation (\$million)
2022	21,470	\$17.78	3,992	\$18.74	\$71.29
2023	21,743	\$19.67	5,173	\$27.62	\$84.81
2024	21,542	\$18.54	5,204	\$19.24	\$87.01

**Table 1b: Number of fatal and total work injury compensation claims and amount awarded, 2022-2024**

	Fatal		Total <sup>10</sup>			
Year	No. of cases	Death Compensation (\$million)	No. of cases	MC Wages (\$million)	PI/Death Compensation (\$million)	Total Payout (\$million)
2022	104	\$14.42	25,566	\$36.52	\$85.71	\$122.23
2023	82	\$11.65	26,998	\$47.29	\$96.46	\$143.75
2024	97	\$13.41	26,843	\$37.78	\$100.42	\$138.20

<sup>9</sup> Work injury compensation data excludes cases that were withdrawn, cases with No-Further-Action required and cases that were not admitted under WICA. MC wages indicated in the table above were computed based on the number of days of medical/hospitalisation leave & light duty captured by MOM.

<sup>10</sup> Total compensation payout is the sum of Total MC Wages and Total PI/Death Compensation.

<sup>11</sup> Temporary incapacity claims arise from non-permanent work injuries where an injured employee is temporarily unable to perform work and earn his usual wages after being placed on medical leave.

<sup>12</sup> Permanent incapacity claims arise from injuries which cause permanent injuries or loss of bodily functions to an injured employee.

# NUMBER OF WORK INJURY CLAIMS FROM WORKERS WHO WERE INVOLVED IN TRAFFIC ACCIDENTS DURING WORK AND WERE NOT VOCATIONAL DRIVERS

Of the 26,843 work injury claims in 2024, there were a total of 27 fatal and major injuries among workers who were involved in traffic accidents during work and were not vocational drivers (Table 1c).

**Table 1c: Number of fatal and major injuries among workers who were involved in traffic accidents during work and were not vocational drivers, based on work injury claims reported, 2022-2024**

	2022		2023		2024	
	Fatal	Major	Fatal	Major	Fatal	Major
Claims from workers who were involved in traffic accidents while driving for work and were not vocational drivers. (e.g. inspectors driving from office to worksite, salesmen)	1	13	1	17	0	15
Claims from workers who were involved in traffic accidents while they were passengers being transported for work. (e.g. employees taking a taxi to an external meeting, workers being transported from worksite to worksite in a lorry)	0	14	1	6	3	9

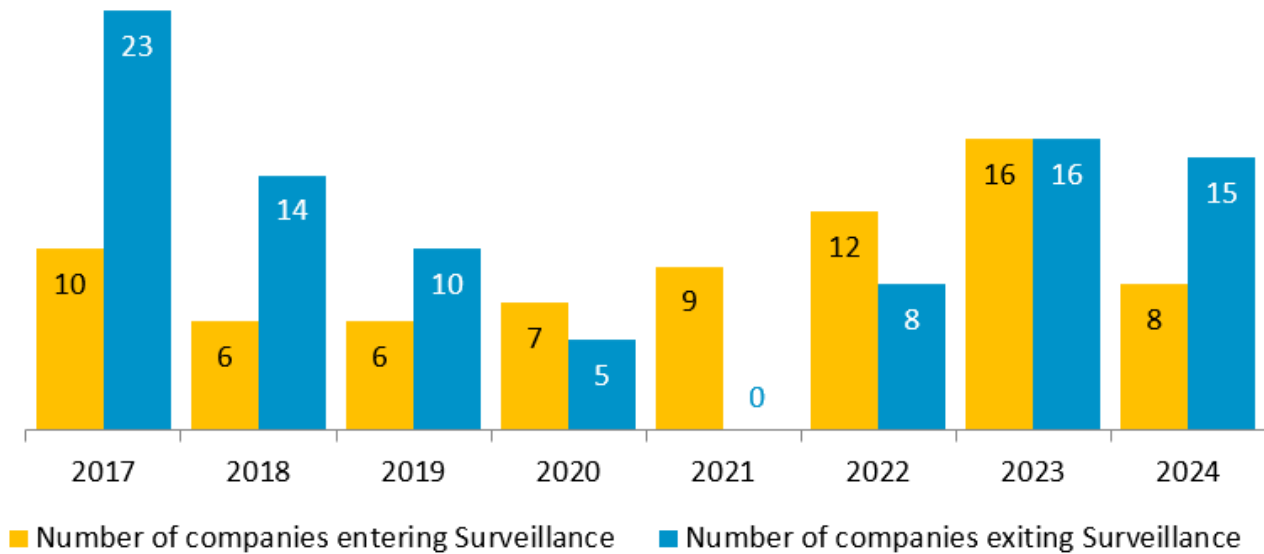
## BUSINESS UNDER SURVEILLANCE

Proactive surveillance of high-risk workplaces enables preventive measures to be taken early. The Business Under Surveillance (BUS) programme focuses on improvement of WSH management systems.

### BUSINESS UNDER SURVEILLANCE

More than 300 companies had been placed under the programme since its inception in 2007. Companies with poor WSH performance which includes having (i) fatalities, (ii) multiple workplace injuries or Dangerous Occurrences, (iii) issued with Stop Work Orders (SWO), (iv) accumulated a substantial number of demerit points, or (v) poor enforcement records, will be assessed on their risk management and WSH management system. If the company demonstrates inability to manage WSH properly or shows signs of systemic lapses, it will formally enter the BUS programme. Companies will exit the programme only when they have shown significant improvement in its WSH performance. In 2024, eight companies entered the BUS programme. They were from the Construction, Marine and Manufacturing sectors. 15 companies exited the programme in 2024.

**Figure 9: Number of companies entering and exiting surveillance, 2017-2024**



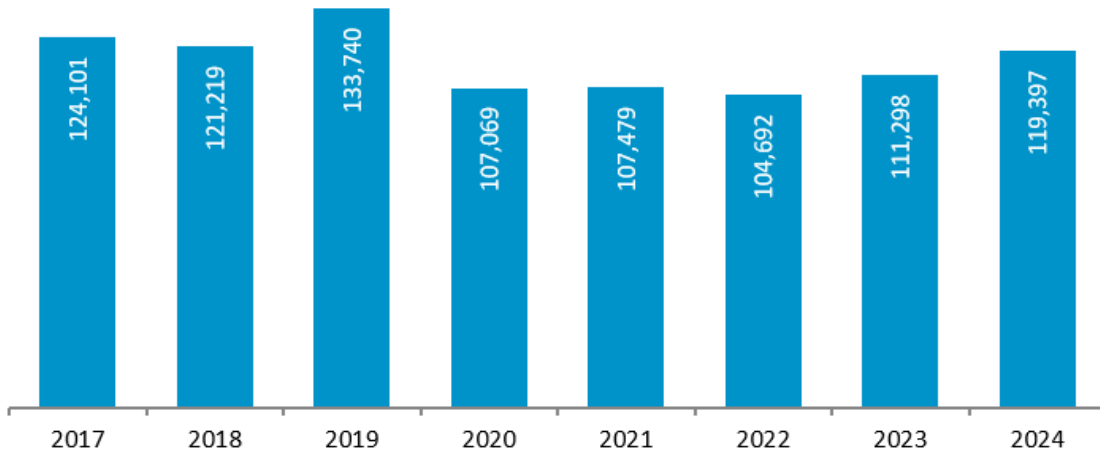
## MEDICAL AND HYGIENE SURVEILLANCE

Medical and Hygiene surveillance programmes monitor workers' exposure and health effects from exposure to the list of hazards under the Workplace Safety and Health (General Provisions) Regulations, Workplace Safety and Health (Noise) Regulations and the Workplace Safety and Health (Medical Examinations) Regulations.

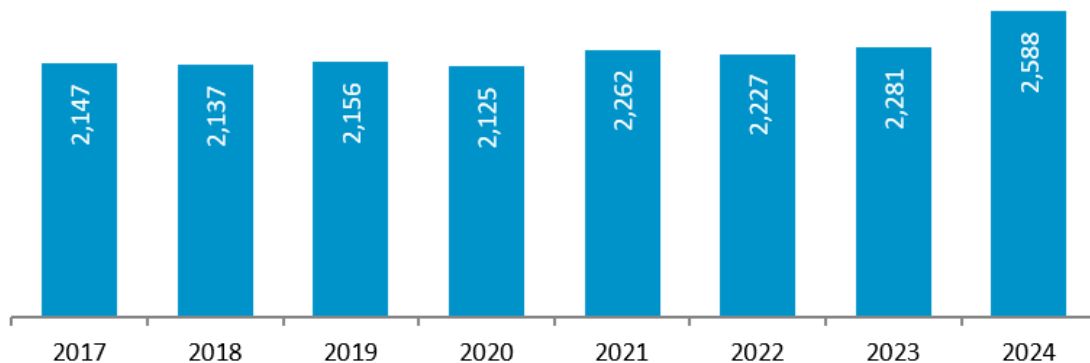
### MEDICAL SURVEILLANCE

Workplaces with hazards listed in the Schedule of the WSH (Medical Examinations) Regulations are required to send their exposed workers for pre-placement and periodic medical examinations. The number of workers under surveillance increased from 111,298 in 2023 to 119,397 in 2024. Similarly, the number of workplaces under medical surveillance increased from 2,281 in 2023 to 2,588 in 2024.

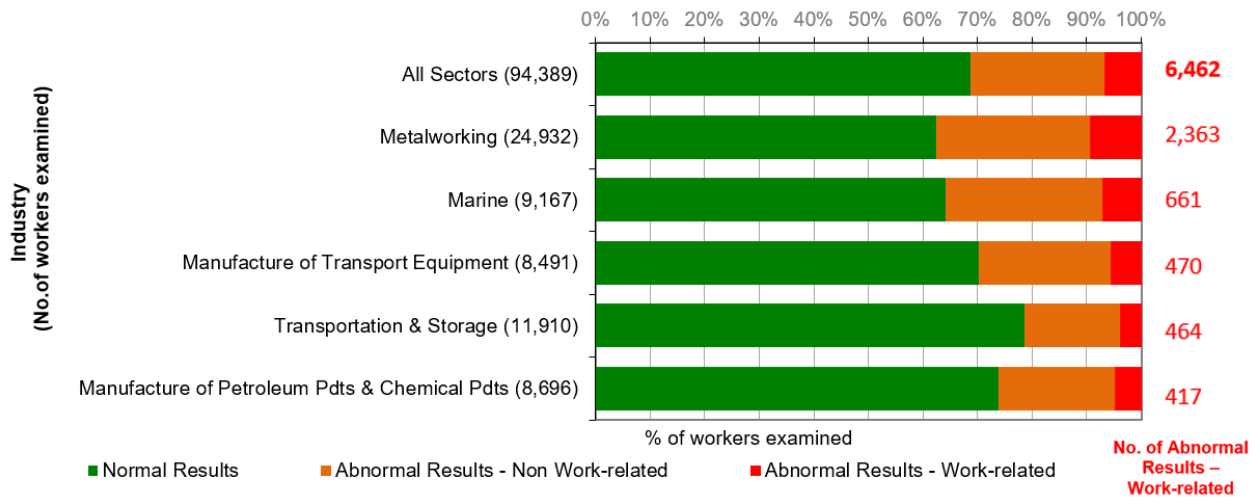
**Figure 10a: Number of workers under medical surveillance, 2017-2024**



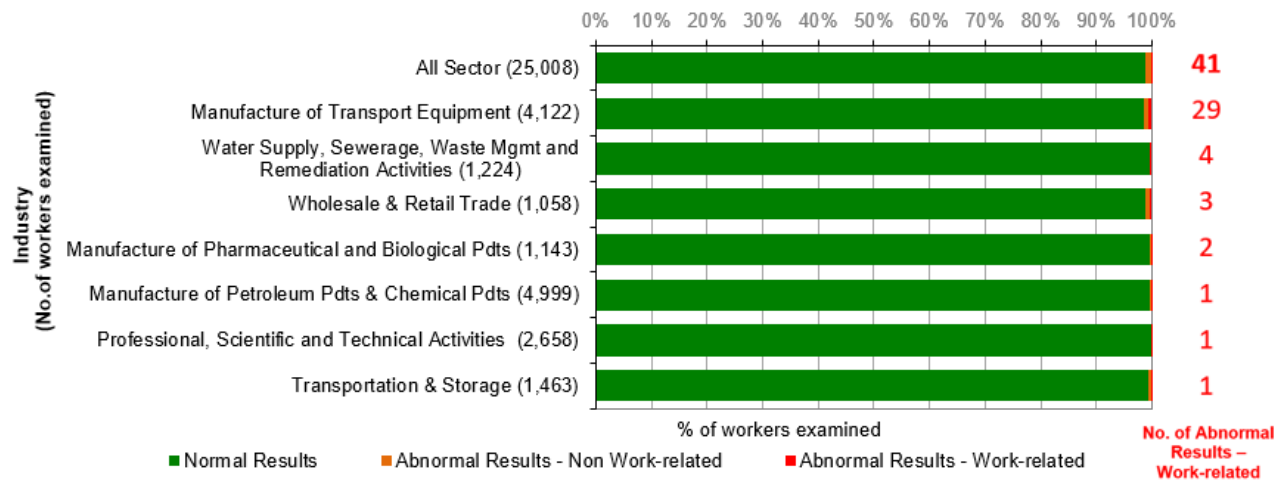
**Figure 10b: Number of workplaces under medical surveillance, 2017-2024**



**Figure 10c: Medical monitoring for noise exposure by Top five industries, 2024**



**Figure 10d: Medical monitoring for chemical exposure by Top five industries, 2024**



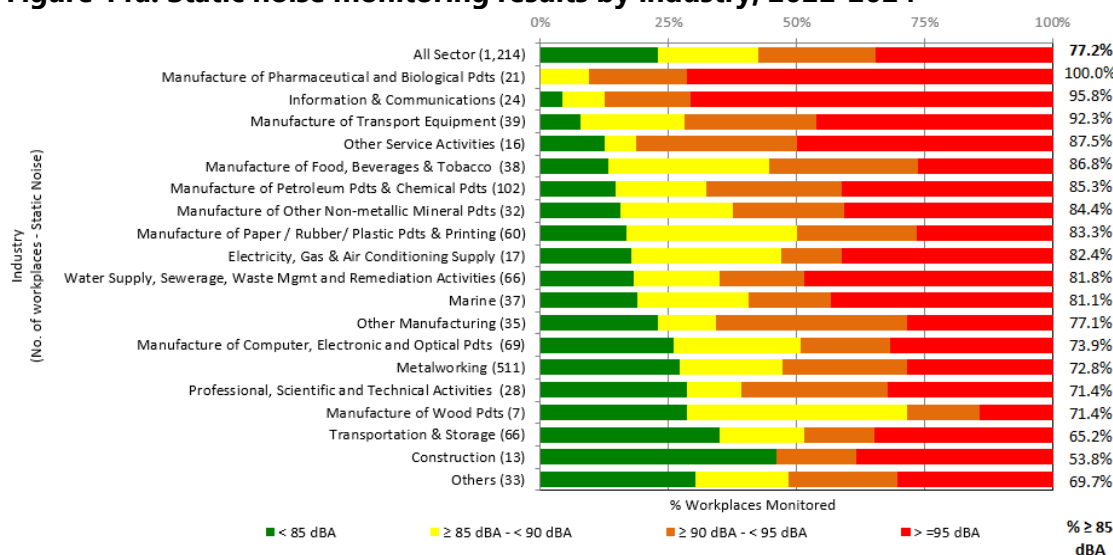
## HYGIENE SURVEILLANCE

Workplaces where persons are likely to be exposed to excessive noise or toxic substances are required to conduct regular hygiene monitoring to measure their workers' exposure to noise and chemicals under the WSH (Noise) Regulations and the WSH (General Provisions) Regulations respectively.

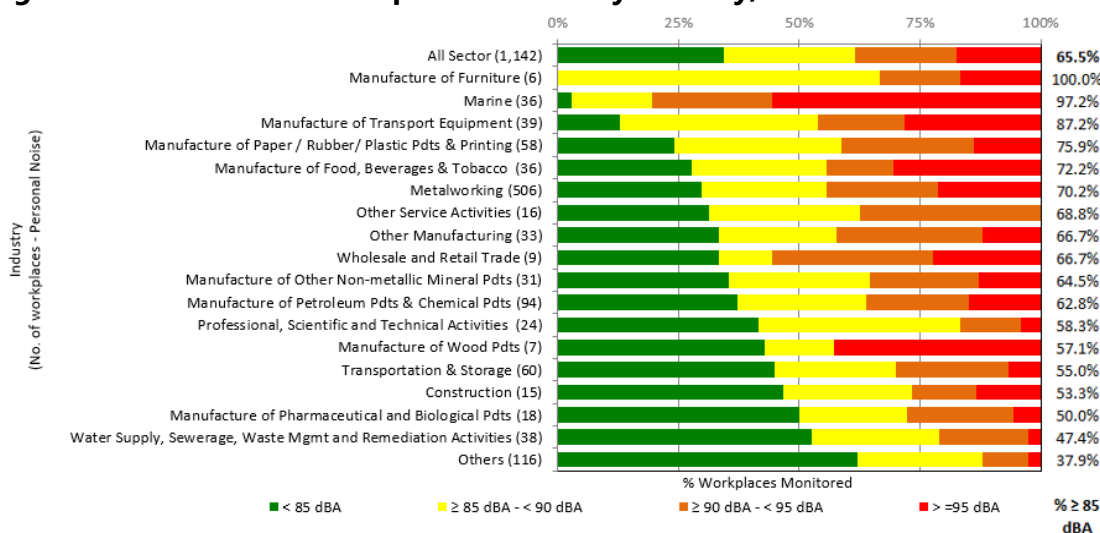
### NOISE EXPOSURE LEVELS

Based on the noise monitoring results submitted over the past three years, 77% of the workplaces had noisy processes exceeding 85dBA. 66% of the workplaces that conducted personal exposure monitoring had workers who were exposed to excessive noise (above an equivalent sound pressure level of 85dBA over an eight-hour workday). These workplaces would need to implement additional control measures to reduce or control the noise generated from machinery or equipment in order to reduce workers' exposure to below the permissible limits as stipulated in the Schedule of the WSH (Noise) Regulations.

**Figure 11a: Static noise monitoring results by industry, 2022-2024**



**Figure 11b: Personal noise exposure results by industry, 2022-2024**

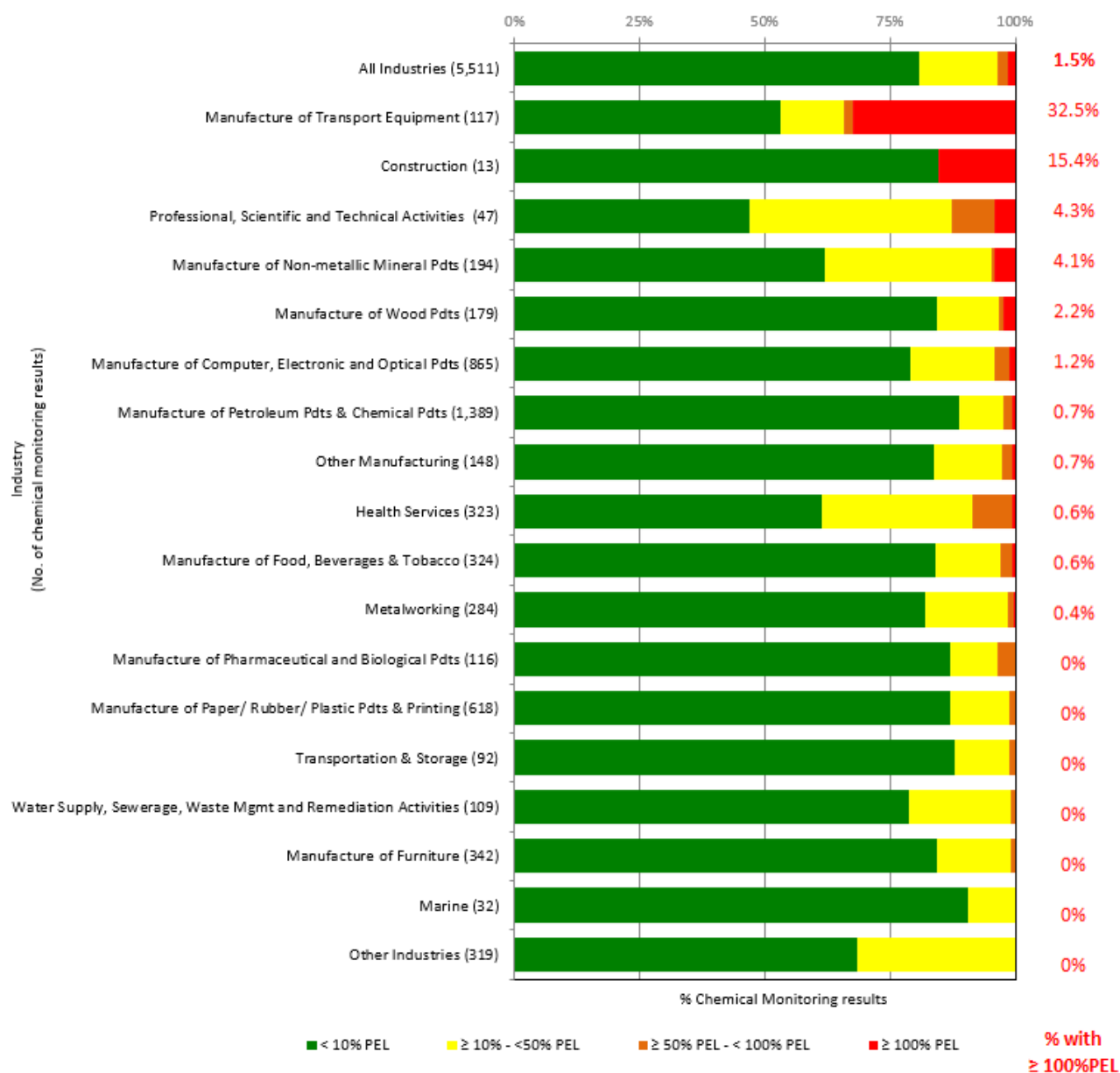




## CHEMICAL EXPOSURE LEVELS

A total of 5,511 chemical monitoring results were received in 2024, of which 52% of the results were from the Manufacture of Petroleum Products & Chemical Products industry (25%), Manufacture of Computer, Electronic & Optical Products (16%), and Manufacture of Paper/ Rubber/ Plastic Products & Printing (11%). Workplaces with chemical exposure levels higher than permissible exposure level (PEL<sup>13</sup>) will require implementation of additional engineering control measures to eliminate or reduce workers' exposure to below the PEL.

**Figure 11c: Chemical exposure results by industry, 2024**



<sup>13</sup> Permissible Exposure Level (PEL) refers to the maximum time weighted average concentration of a toxic substance to which any person may be exposed.

## ANNEX A1

## STATISTICAL TABLES ON INDUSTRY PROFILE

Table (vii): Fatal and major injury rates by firm size and proportion of injured by working experience for selected industry, 2024

Industry	Injury Rate by occupier firm size (per 100,000 workers)		Proportion of injured by working experience in the company	
	SME <sup>^</sup>	Larger Firms	≤ 3 years	> 3 years
Construction	26	44	66%	34%
Manufacturing	39	18	55%	45%
Transportation & Storage	32	19	57%	43%
Accommodation & Food Services	12	33	59%	41%
Administrative & Support Services	16	19	53%	47%
Wholesale & Retail Trade	10	11	57%	43%
Marine	19	71	41%	59%

<sup>^</sup> Small and Medium Enterprises (SME) are defined as enterprises with employment not more than 200 workers.

Table (viii): Number and proportion of workplace fatal and major injuries by selected industry, 2024

Industry	Number of Fatal and Major Injuries, 2024	Percentage of Total
Overall	630	100%
Construction	166	26%
Manufacturing	125	20%
Accommodation & Food Services	51	8.1%
Transportation & Storage	49	7.8%
Wholesale & Retail Trade	46	7.3%
Administrative & Support Services	43	6.8%
Marine	22	3.5%
<i>Sum of selected industries</i>	<i>502</i>	<i>80%</i>

## ANNEX A2

### INDUSTRY PROFILE OF FATAL AND MAJOR INJURIES BY INCIDENT TYPE (CAUSE) AND ROOT CAUSES, 2024

#### CONSTRUCTION

##### Common incident type (cause) for fatal and major injuries in 2024

Construction			
Type A		Type B	
Incident Type (Cause)	2024	Incident Type (Cause)	2024
Falls from Height	44	Slips, Trips & Falls	29
Struck by Falling Objects	19	Machinery Incidents	17
Caught in/Between Objects	13		
Vehicular Incidents	11		
Collapse/Failure of Structure & Equipment	8		

##### Common root causes

Accident types	Root causes	Common occurrence	Common incident agent
Falls From Height	Inadequate WSH Management System (WSHMS), i.e - not specific to work activities	Failed to establish Risk Assessment (RA)/ Safe Work Procedures (SWP)/ Method of Statement (MOS) for specific work carried out by workers; Inadequate RA/ SWP/MOS for specific work carried out by workers	Ladders, Scaffolds, Roof works, Structures, Mobile Elevated Work Platform
	Non-compliance of WSHMS measures	Failure to ensure protective measures were in place before work commenced – poor supervision; Inadequate/unclear instructions by supervisor	
	Unsafe behaviours by workers	Victims failed to anchor harnesses, or adopted unsafe behaviours e.g. climbing over barriers and removing barricades	

**Common root causes (Continued)**

Accident types	Root causes	Common occurrence	Common incident agent
Vehicular Incidents	No / inadequate Traffic Management Plan	Lack of proper control of vehicular movements on site especially due to changing site conditions and lack of designated walkways	Motor vehicles
	Negligence by operator/co-worker	Operator/co-worker did not keep a proper lookout, jaywalking or did not adhere to control measures	
Struck by Falling Objects	Inadequate WSHMS	Inadequate and generic RA, SWP, no/inadequate work procedure, overloading	Metal Items, Industrial Hand Tools
	Isolated non-compliance to WSHMS (by victim or co-worker/s)	Complacency of workers (lack of hazard awareness), failure to adhere to procedures; Miscommunication or lack of clear communication regarding tasks, procedures, or safety measures	
	Equipment Failure or Malfunction	Tools, machinery, or equipment that are defective, not properly maintained, or used incorrectly	
	Inadequate risk control measures; Unsafe behaviours by workers	Lack of/ Inadequate RA, Inadequate work instructions to workers involved; Negligence of individual/ other workers, etc.	
	Poor housekeeping	Improper storage or placement of materials or tools	
Slips, Trips & Falls	Lack of safety provision	No designated walkways, poor lighting in walkways and staircases	Floor/Level Surfaces, Stairs or steps
	Poor housekeeping	Cluttered walkways, debris not cleaned up promptly	
	Lack of awareness or attention	Not using handrails, distracted walking	
Collapse/Failure of Structure & Equipment	Lack of/ Non-compliance to WSHMS measures	Failure to conduct RA, develop SWP, MOS statement, for works carried out at the worksite (e.g. demolition, sheave block installation); Inadequate instructions and control measures on safe erection of rebar structure, failure to adhere to demolition procedures	Metal Items, Structures

## MANUFACTURING

### Common incident type (cause) for fatal and major injuries in 2024

Manufacturing			
Type A		Type B	
Incident Type (Cause)	2024	Incident Type (Cause)	2024
Struck by Falling Objects	9	Machinery Incidents	42
Falls from Height	8	Slips, Trips & Falls	36
Caught in/Between Objects	6	Exposure to/Contact with Extreme Temperature	6
Vehicular Incidents	6		
Struck by Moving Objects	4		

### Common root causes

Accident types	Root causes	Common occurrence	Common incident agent
Machinery Incidents	No or inadequate control measures or safety procedures	No machine guarding, no Lock out, Tag out (LOTO) procedures, ineffective or uncoordinated work processes between two or more interrelated machines leading to accident	Industrial machines (Saws, Transmission machines e.g. Belts gear chain pulley, meat grinders)
	Non-compliance to safety measures	Not following LOTO procedures, bypass of safety interlocks, lack of in-house on safe machinery use, removal of machine guarding without reinstating	
	Unsafe behaviours by workers	Wearing hand gloves, loose fitting clothes, or untied long hair when operating machines with exposed rotating parts, resulting in entanglement accidents	
Slips, Trips & Falls	Lack of safety measures	Failure to install non-slip flooring/ anti-slip mats on wet areas	Floor/ Level surfaces
	Non-compliance to safety measures	Failure to enforce wearing of suitable footwear (e.g. rubber boots in metalworking); Lack of situational awareness	
	Poor housekeeping	Failure to clear material debris, resulting in obstructions along passageway; Disorganised workplace posing tripping hazards (e.g. electrical cables, compressed air hoses running across workplaces)	

### Common root causes (Continued)

Falls from Height	No or lack of safety measures	Unauthorized erection of mezzanine without barricade or access; Poor/ unsafe means of access to materials stored at heights, e.g. unsecured ladders or lifting of persons using forklift	Ladders, Structures
	Unsafe behaviours by workers	Workers devised their own improper and unsafe ways to access height; Personal Protective Equipment (PPE) (e.g. body harness with lanyard, lifeline) provided by employer but workers failed to install or use it	
Struck by Falling Objects	No or lack of safety measures	Unsecured items placed at height. Poor/ unsafe lifting or rigging techniques	Cranes, Structures
	Materials stored on metal storage racks without being shrink wrapped or secured	Materials may fall off from the metal storage racks during loading/ unloading operations	Storage racks
	Improper storage of materials	Loose articles stacked above the guardrail height without any means of securing, near edges of mezzanine flooring or staircase landing	Mezzanine floor/staircase landing

## TRANSPORTATION & STORAGE

### Common incident type (cause) for fatal and major injuries in 2024

Transportation & Storage			
Type A		Type B	
Incident Type (Cause)	2024	Incident Type (Cause)	2024
Vehicular Incidents	6	Slips, Trips & Falls	12
Struck by Falling Objects	5	Strike Against Objects	3
Suffocation/Drowning	5	Machinery Incidents	2

### Common root causes

Accident types	Root causes	Common occurrence	Common incident agent
Vehicular (including forklifts)	Inadequate Traffic Management Plan and other controls	Lack of proper planning or supervision leading to improper use of vehicle; No proper control of keys to vehicles and designated operators; Unauthorized modification e.g. forklift attachments, poor forklift maintenance e.g. worn tires and faulty audio buzzers	Motor vehicles
	Non-compliance to Traffic management plan	Established traffic management plan, but not adhered to on site, e.g. demarcated lines faded over time and not repainted, workers not walking within demarcated lines etc	
	Unsafe acts by injured/ others	Actions by injured or negligence by third party drivers in work-related traffic accidents	
Slips, Trips & Falls	Lack of safety measures	Failure to install non-slip flooring / anti-slip mats on wet areas; Lack of communication on safe means of access to vehicles; Poor housekeeping (e.g. electrical cables, materials haphazardly placed on passageway and failure to keep floor dry)	Floor/ Level Surfaces, Stairs or steps
	Non-compliance to safety measures	Failure to check effectiveness of footwear regularly and enforce wearing of suitable footwear (e.g. non-slip shoes); Lack of handhold for access steps or stairs	
Suffocation/ Drowning	Non-compliance to safety measures	Failure to establish or enforce established risk control measures (e.g. wearing of lifejackets, confined spaces entry requirements including proper permit-to-work (PTW), proper gas checks, adequate ventilation, etc.)); Failure to adhere to risk control measures	Vessels
	Competency issues	Personnels involved in confined space work not trained or inadequately trained including Authorised or Confined Space Manager.	

## MARINE

### Common incident type (cause) for fatal and major injuries in 2024

Marine			
Type A		Type B	
Incident Type (Cause)	2024	Incident Type (Cause)	2024
Struck by Moving Objects	5	Slips, Trips & Falls	5
Falls from Height	3		
Suffocation/Drowning	2		
Vehicular Incidents	2		
Caught in/Between Objects	2		
Struck by Falling Objects	2		

### Common root causes

Accident types	Root causes	Common occurrence	Common incident agent
Slips, Trips & Falls	Poor housekeeping	Failure to clear materials or debris, resulting in obstructions along passageways; Disorganised workplace posing tripping hazards (e.g. electrical/ welding cables, compressed air/gas hoses running across workplaces); Wet or oily surfaces	Floor/Level Surfaces, Stairs or steps
Falls from Height	Lack of safety measures	Failure to implement risk control measures to safeguard workers exposed to risk of falling into manhole (e.g. installation of barricades)	Manhole opening
	Unsafe behaviours by workers	Negligence of individuals	Ladders
Suffocation/ Drowning	Non-compliance to safety measures	Failure to adhere to established risk control measures for diving operations, and works in confined spaces	Physical workplaces
Struck by Moving Objects	No or inadequate control measures or safety procedures.	Inadequate Risk Assessment (RA)/ Safe Work Procedures (SWP)/ Method of Statement (MOS) for specific work carried out by workers	Metal items, Hinged covers
	Negligence by operator/co-worker	Operator/co-worker did not keep a proper lookout	Boom lift



## SERVICES

### Common incident type (cause) for fatal and major injuries in 2024

Type A		Type B	
Incident Type (Cause)	2024	Incident Type (Cause)	2024
<b>Accommodation &amp; Food Services</b>			
Vehicular Incidents	4	Slips, Trips & Falls	20
		Exposure to/ Contact with Extreme Temperature	11
		Strike Against Objects	4
<b>Administrative &amp; Support Services</b>			
Vehicular Incidents	5	Slips, Trips & Falls	23
Falls from Height	2	Strike Against Objects	2
Struck by Falling Objects	2	Exposure to/ Contact with Electric Current	2
Struck by Moving Objects	2		
<b>Wholesale &amp; Retail Trade</b>			
Falls from Height	6	Slips, Trips & Falls	14
Vehicular Incidents	6	Exposure to/ Contact with Electric Current	5

### Common root causes

Accident types	Root causes	Common occurrence	Common incident agent
<b>Accommodation &amp; Food Services</b>			
Exposure to/ Contact with Extreme Temperature	Inadequate planning and procedures	Crowded food preparation area; Inadequate instructions on safe food preparation methods	Hot scalding liquid/ Steam
	Negligence by workers	Complacency/ lack of situational awareness during food preparation (transferring hot liquids)	
Slips, Trips & Falls	Lack of safety measures	Failure to install non-slip flooring/ anti-slip mats on wet areas; Failure to keep floor dry and free of grease; Lack of non-slip surface measures in slip-prone area	Floor/ Level Surfaces
	Non-compliance to safety measures	Failure to enforce wearing of suitable footwear (e.g. non-slip shoes)	

**Common root causes (Continued)**

Accidents Type	Root Causes	Common Occurrence	Common incident agent
<b>Administrative &amp; Support Services</b>			
Slips, Trips & Falls	Lack of safety measures	Failure to provide non-slip footwear; Lack of communication on Safe Work (cleaning) methods; Lack of suitable tools provided (e.g. cleaning / drying equipment); Lack of non-slip surface measures in slip-prone area	Floor/Level Surfaces, Stairs or Steps
	Non-compliance to safety measures	Use of improper tools (for cleaning/ drying); Not wearing suitable footwear	
Vehicular Incidents	Unsafe acts by injured/others	Actions by injured or negligence by third party drivers in work-related traffic accidents	Motor vehicles
<b>Wholesale &amp; Retail Trade</b>			
Slips, Trips & Falls	Inadequate safety measures and safety procedures	Lack of system of managing flow of goods; Lack of non-slip surface measures in slip-prone area; Negligence of individuals or other workers	Floor/Level Surfaces; Motor vehicles; Furniture/ Fittings; Stairs/ Steps; Goods & Cargo
Vehicular Incidents	Unsafe acts by injured/others	Actions by injured or negligence by third party drivers in work-related traffic accidents	Motor vehicles
Exposure to/ Contact with Electric Current	No or inadequate control measures or safety procedures.	Inadequate Lock Out Tag Out procedure; No provision or wearing of suitable electrically insulated gloves	Electrical Appliances
	Inadequate maintenance of equipment	Failure to maintain equipment to protect any person against the risks of electric shock	

## ANNEX B

### STATISTICAL TABLES

**Table 2: Rate of total workplace injuries by industry, 2023 - 2024**

Industry	Total Workplace Injury Rate (per 100,000 workers)			
	2023	2024	2023 [N]	2024 [N]
<b>All Industries</b>	<b>354</b>	<b>327</b>	<b>623</b>	<b>601</b>
Construction	472	389	672	523
Manufacturing	629	542	970	857
Marine	489	423	784	650
Transportation & Storage	374	341	635	594
Accommodation & Food Services	571	530	1,123	1,130
Administrative & Support Services	363	347	614	603
Health & Social Services	527	560	1,471	1,678
Professional, Scientific & Technical Activities	143	136	258	277
Real Estate Services	327	310	520	515
Wholesale & Retail Trade	159	166	283	299
Others	189	191	356	359

**Table 3a: Number of workplace fatal injuries by industry/ work activity, 2023 - 2024**

Industry/ Work Activity	2023	2024
<b>All Industries</b>	<b>36</b>	<b>43</b>
Construction	18	20
<i>Regular Construction</i>	7	13
<i>Smaller Scale Works (e.g. Addition &amp; Alteration works and Renovation)</i>	11	7
<i>Work-related Traffic Accidents</i>	0	0
Transportation & Storage	8	9
<i>Logistics &amp; Transport</i>	6	4
Manufacturing	5	2
<i>Metalworking</i>	2	1
<i>Manufacture of Food, Beverages and Tobacco</i>	2	1
Marine	0	5
Real Estate Activities	1	1
Accommodation & Food Service Activities	0	1
<i>Food &amp; Beverage Service Activities</i>	0	1
Administrative & Support Service Activities	1	0
<i>Cleaning &amp; Landscape Maintenance Activities</i>	1	0
Water Supply; Sewerage, Waste Management & Remediation Activities	0	3
Wholesale & Retail Trade	1	1
<i>Wholesale Trade</i>	0	1
<i>Retail Trade</i>	1	0
Financial & Insurance Services	1	0
Community, Social & Personal Services	1	1
<i>Public Administration &amp; Defence</i>	0	1
<i>Other Service Activities</i>	1	0

**Table 3b: Rate of workplace fatal injuries by industry/ work activity, 2023 – 2024**

Per 100,000 workers

Industry/ Work Activity	2023	2024
<b>All Industries</b>	<b>0.99</b>	<b>1.2</b>
Construction	3.4	3.7
<i>Regular Construction</i>	n.a.	n.a.
<i>Smaller Scale Works (e.g. Addition &amp; Alteration works and Renovation)</i>	n.a.	n.a.
<i>Work-related Traffic Accidents</i>	n.a.	n.a.
Transportation & Storage	3.0	3.4
<i>Logistics &amp; Transport</i>	5.1	3.4
Manufacturing	1.2	0.5
<i>Metalworking</i>	1.9	1.0
<i>Manufacture of Food, Beverages and Tobacco</i>	3.3	1.6
Marine	0	8.1
Real Estate Activities	1.3	1.2
Accommodation & Food Service Activities	0	0.4
<i>Food &amp; Beverage Service Activities</i>	0	0.4
Administrative & Support Service Activities	0.4	0
<i>Cleaning &amp; Landscape Maintenance Activities</i>	1.2	0
Water Supply; Sewerage, Waste Management & Remediation Activities	n.a.	n.a.
Wholesale & Retail Trade	0.2	0.2
<i>Wholesale Trade</i>	0	0.3
<i>Retail Trade</i>	0.6	0
Financial & Insurance Services	0.4	0
Community, Social & Personal Services	0.2	0.2
<i>Public Administration &amp; Defence</i>	n.a.	n.a.
<i>Other Service Activities</i>	n.a.	n.a.

Table 3c: Number of workplace fatal injuries by incident risk type (Type A/B), 2023 – 2024

Incident Type (Cause)	2023	2024
<b>Total Workplace Fatal Injuries</b>	<b>36</b>	<b>43</b>
<i>Type A (higher fatality risk)</i>	29	38
<i>Type B (Lower fatality risk)</i>	7	5

Table 3d: Number of workplace fatal injuries by incident type (cause) and incident agent, 2023 – 2024

Incident Type (Cause)	Incident Agent	2023	2024
<b>Total Workplace Fatal Injuries for Type A</b>		<b>29</b>	<b>38</b>
Vehicular Incidents	<b>Total</b>	<b>8</b>	<b>11</b>
	<b>Subtotal</b>	<b>4</b>	<b>4</b>
- Work-related Traffic Accidents	<i>Vehicles - Transport Equipment</i>	4	4
- In Workplaces	<b>Subtotal</b>	<b>4</b>	<b>7</b>
	<i>Vehicles - Transport Equipment</i>	2	4
	<i>Vehicles - Forklifts</i>	0	2
	<i>Vehicles - Industrial Trucks</i>	2	1
Suffocation /Drowning	<b>Total</b>	<b>1</b>	<b>7</b>
	<i>Other Incident Agents</i>	0	5
	<i>Physical Workplace - Confined Space</i>	1	2
Collapse/Failure of Structure & Equipment	<b>Total</b>	<b>9</b>	<b>6</b>
	<i>Physical Workplace - Structures</i>	2	5
	<i>Physical Workplace - Formwork</i>	0	1
	<i>Material &amp; Substances - Metal Items</i>	3	0
	<i>Vehicles - Forklifts</i>	1	0
	<i>Pressurised Equipment</i>	1	0
	<i>Material &amp; Substances - Wooden Items</i>	1	0
	<i>Material &amp; Substances - Glass Items</i>	1	0
<b>Struck By Falling Objects</b>	<b>Total</b>	<b>0</b>	<b>5</b>
	<i>Material &amp; Substances - Metal Items</i>	0	2
	<i>Physical Workplace - Formwork</i>	0	1
	<i>Lifting Equipment - Others</i>	0	1
	<i>Vehicles - Excavators</i>	0	1
Falls From Height	<b>Total</b>	<b>8</b>	<b>4</b>
	<i>Physical Workplace - Structures</i>	3	1
	<i>Physical Workplace - Roofs</i>	3	1
	<i>Physical Workplace - Floors/Level Surfaces</i>	0	1
	<i>Means of Access - Others</i>	0	1
	<i>Vehicles - Transport Equipment</i>	1	0
	<i>Means of Access - Ladders</i>	1	0

(Continued) Table 3d: Number of workplace fatal injuries by incident type (cause) and incident agent, 2023 – 2024

Incident Type (Cause)	Incident Agent	2023	2024
Crane-related Incidents	<b>Total</b>	<b>0</b>	<b>2</b>
	Lifting Equipment - Cranes	0	2
Struck By Moving Objects	<b>Total</b>	<b>2</b>	<b>1</b>
	<i>Other Incident Agents</i>	0	1
	<i>Lifting Equipment - Others</i>	1	0
	<i>Vehicles - Industrial Trucks</i>	1	0
Caught In/ Between Objects	<b>Total</b>	<b>1</b>	<b>1</b>
	<i>Lifting Equipment - Mobile Work Platform</i>	1	1
Fires & Explosion	<b>Total</b>	<b>0</b>	<b>1</b>
	<i>Material &amp; Substances - Explosives/Flammable</i>	0	1
<b>Total Workplace Fatal Injuries for Type B</b>		<b>7</b>	<b>5</b>
Exposure to/ Contact with Hazardous Substances	<b>Total</b>	<b>0</b>	<b>2</b>
	<i>Physical Workplace - Confined Space</i>	0	2
Exposure to/ Contact with Electric Current	<b>Total</b>	<b>3</b>	<b>1</b>
	<i>Electrical Equipment</i>	1	1
	<i>Industrial Machines</i>	1	0
	<i>Material &amp; Substances - Metal Items</i>	1	0
Others	<b>Total</b>	<b>1</b>	<b>1</b>
	<i>Other Incident Agents</i>	1	1
<b>Machinery Incidents</b>	<b>Total</b>	<b>0</b>	<b>1</b>
	<i>Industrial Machines</i>	0	1
Slips, Trips & Falls	<b>Total</b>	<b>3</b>	<b>0</b>
	<i>Means of Access - Others</i>	1	0
	<i>Physical Workplace - Floors/Level Surfaces</i>	1	0
	<i>Vehicles - Forklifts</i>	1	0

Table 3e: Number of workplace fatal injuries by industry and incident type (cause), 2024

Industry	All	Construction	Transportation & Storage	Marine	Water Supply; Sewerage, Waste Management & Remediation	Manufacturing	Wholesale & Retail Trade	Accommodation & Food Services	Real Estate Activities	Public Administration & Defence
<b>Total</b>	<b>43</b>	<b>20</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Type A</b>	<b>38</b>	<b>18</b>	<b>9</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Vehicular Incidents	11	2	2	1	1	1	1	1	1	1
Suffocation /Drowning	7	0	5	2	0	0	0	0	0	0
Collapse/Failure of Structure & Equipment	6	6	0	0	0	0	0	0	0	0
Struck By Falling Objects	5	5	0	0	0	0	0	0	0	0
Falls From Height	4	3	0	1	0	0	0	0	0	0
Crane-related Incidents	2	1	1	0	0	0	0	0	0	0
Struck By Moving Objects	1	0	0	1	0	0	0	0	0	0
Caught In/ Between Objects	1	1	0	0	0	0	0	0	0	0
Fires & Explosion	1	0	1	0	0	0	0	0	0	0
<b>Type B</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Exposure to/ Contact with Hazardous Substances	2	0	0	0	2	0	0	0	0	0
Exposure to/ Contact with Electric Current	1	1	0	0	0	0	0	0	0	0
Others	1	1	0	0	0	0	0	0	0	0
Machinery Incidents	1	0	0	0	0	1	0	0	0	0



**Table 4a: Number of workplace major injuries by selected industry/ work activity, 2023 - 2024**

Industry/ Work Activity	2023	2024
<b>All Industries</b>	<b>590</b>	<b>587</b>
Construction	149	146
<i>Smaller Scale Works (e.g. Addition &amp; Alteration works and Renovation)</i>	100	96
<i>Regular Construction</i>	47	47
<i>Work-related Traffic Accidents</i>	2	3
Manufacturing	150	123
<i>Metalworking</i>	59	47
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	36	32
<i>Other Manufacturing</i>	8	8
<i>Manufacture of Other Non-metallic Mineral Products</i>	5	8
Transportation & Storage	47	40
<i>Logistics &amp; Transport</i>	37	35
Accommodation & Food Service Activities	43	50
<i>Food &amp; Beverage Service Activities</i>	35	35
<i>Accommodation</i>	8	15
Administrative & Support Service Activities	41	43
<i>Cleaning &amp; Landscape Maintenance Activities</i>	22	25
<i>Security &amp; Investigation Activities</i>	9	11
Wholesale & Retail Trade	23	45
<i>Wholesale Trade</i>	12	27
<i>Retail Trade</i>	11	18
Marine	22	17
Real Estate Activities	12	12
Professional, Scientific & Technical Activities	13	10
Community, Social & Personal Services	66	85
<i>Health &amp; Social Services</i>	28	34
<i>Education</i>	16	26
<i>Other Services Activities</i>	11	12

**Table 4b: Rate of workplace major injuries by selected industry/ work activity, 2023 – 2024**

Per 100,000 workers

Industry/ Work Activity	2023	2024
<b>All Industries</b>	<b>16.1</b>	<b>15.9</b>
Construction	28.5	27.3
<i>Smaller Scale Works (e.g. Addition &amp; Alteration works and Renovation)</i>	n.a.	n.a.
<i>Regular Construction</i>	n.a.	n.a.
<i>Work-related Traffic Accidents</i>	n.a.	n.a.
Manufacturing	35.1	28.9
<i>Metalworking</i>	56.2	45.4
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	59.0	50.3
<i>Other Manufacturing</i>	n.a.	n.a.
<i>Manufacture of Other Non-metallic Mineral Products</i>	n.a.	n.a.
Transportation & Storage	17.5	15.1
<i>Logistics &amp; Transport</i>	31.3	29.9
Accommodation & Food Service Activities	15.9	18.5
<i>Food &amp; Beverage Service Activities</i>	14.7	14.7
<i>Accommodation</i>	24.2	44.6
Administrative & Support Service Activities	16.8	17.3
<i>Cleaning &amp; Landscape Maintenance Activities</i>	26.7	29.8
<i>Security &amp; Investigation Activities</i>	18.7	22.1
Wholesale & Retail Trade	5.0	9.9
<i>Wholesale Trade</i>	3.9	9.0
<i>Retail Trade</i>	6.8	11.5
Marine	35.3	27.7
Real Estate Activities	15.8	14.7
Professional, Scientific & Technical Activities	4.6	3.5
Community, Social & Personal Services	10.7	13.4
<i>Health &amp; Social Services</i>	13.8	16.0
<i>Education</i>	n.a.	n.a.
<i>Other Services Activities</i>	n.a.	n.a.

**Table 4c: Types of workplace major injuries, 2023 - 2024**

Workplace Major Injury Types	2023	2024
<b>Total</b>	<b>590</b>	<b>587</b>
Crushing, Fractures and Dislocations: Head, Back, Chest and Abdomen, Neck, Hip and Pelvis	346	354
Amputations	115	105
Multiple Injuries	41	51
Burns, With More Than 20 MC Days	49	45
Exposure to/ Contact with Electric Current	12	20
Concussion, With More Than 20 MC Days	23	9
Blindness	2	1
Deafness	0	1
Sprains and Strains	0	1
Others	2	0

Table 4d: Number of workplace major injuries by incident risk type (Type A/B), 2023 – 2024

Incident Type (Cause)	2023	2024
<b>Total Workplace Major Injuries</b>	<b>590</b>	<b>587</b>
<i>Type A (higher fatality risk)</i>	205	211
<i>Type B (Lower fatality risk)</i>	385	376

Table 4e: Number of workplace major injuries by key incident type (cause) and incident agent, 2023 – 2024

Incident Type (Cause)	Incident Agent	2023	2024
<b>Total Workplace Major Injuries for Type A</b>		<b>205</b>	<b>211</b>
Falls From Height	<b>Total</b>	<b>67</b>	<b>74</b>
	<i>Means of Access - Ladders</i>	37	46
	<i>Physical Workplace - Structure</i>	15	9
	<i>Means of Access - Scaffold</i>	3	8
Vehicular Incidents	<b>Total</b>	<b>31</b>	<b>37</b>
- Work-related Traffic Accidents	<b>Subtotal</b>	<b>12</b>	<b>20</b>
	<i>Motor Vehicles</i>	12	20
- In Workplaces	<b>Subtotal</b>	<b>19</b>	<b>17</b>
	<i>Motor Vehicles</i>	11	10
	<i>Vehicles – Excavators/ Forklifts/ Reach truck/ Stacker</i>	6	6
Struck by Falling Objects	<b>Total</b>	<b>43</b>	<b>36</b>
	<i>Metal Items (excluding knives/needles)</i>	13	9
	<i>Furniture &amp; Fittings</i>	2	8
Caught In/ Between Objects	<b>Total</b>	<b>26</b>	<b>27</b>
	<i>Metal Items (excluding knives/needles)</i>	15	14
	<i>Other Incident Agents</i>	1	3
Struck by Moving Objects	<b>Total</b>	<b>24</b>	<b>24</b>
	<i>Metal Items (excluding knives/needles)</i>	6	8
	<i>Furniture &amp; Fittings</i>	1	4

**Table 4e: Number of workplace major injuries by key incident type (cause) and incident agent, 2023 – 2024 (Continued)**

Incident Type (Cause)	Incident Agent	2023	2024
<b>Total Workplace Major Injuries for Type B</b>		<b>385</b>	<b>376</b>
Slips, Trips & Falls	<b>Total</b>	<b>199</b>	<b>207</b>
	<i>Physical Workplace - Floors/Level Surfaces</i>	83	71
	<i>Means of Access - Stairs or Steps</i>	29	39
	<i>Furniture &amp; Fittings</i>	14	25
Machinery Incidents	<b>Total</b>	<b>84</b>	<b>76</b>
	<i>Industrial Machines</i>	66	65
	<i>Industrial Hand Tools</i>	16	9
Exposure to/ Contact with Extreme Temperatures	<b>Total</b>	<b>27</b>	<b>27</b>
	<i>Hot scalding liquid/Steam</i>	22	18
	<i>Metal Items (excluding knives/needles)</i>	0	3
Exposure to/ Contact with Electric Current	<b>Total</b>	<b>22</b>	<b>24</b>
	<i>Electrical Installation</i>	7	12
	<i>Industrial Machines</i>	9	6
Over-exertion/ Strenuous Movements	<b>Total</b>	<b>21</b>	<b>17</b>
	<i>Goods/Cargo</i>	12	7
	<i>Human Factors</i>	5	6

Table 4f: Top three incident types for workplace major injuries by industry, 2024

Industry	Top Three Incident Types (Causes)		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
<b>All Industries</b>	<b>STF</b>	<b>MAC</b>	<b>FFH</b>
Construction	FFH	STF	MAC
Marine	STF	SBMO	SBFO, FFH, CIBO
Manufacturing	MAC	STF	SBFO
<i>Metalworking</i>	STF	MAC	SBFO
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	MAC	STF	ETET
<i>Other Manufacturing</i>	STF	MAC	SBFO, FFH, CIBO
<i>Manufacture of Other Non-metallic Mineral Products</i>	STF	SBMO, SBFO, FFH, OESM	-
Transportation & Storage	STF	SBFO	VEH, CIBO
<i>Logistics &amp; Transport</i>	STF	SBFO	VEH
Accommodation & Food Service Activities	STF	ETET	SAO
<i>Food &amp; Beverage Service Activities</i>	STF	ETET	VEH
<i>Accommodation</i>	STF, ETET	-	SAO
Administrative & Support Service Activities	STF	VEH	Multiple Causes
<i>Cleaning &amp; Landscape Maintenance Activities</i>	STF	VEH, SBMO, SBFO, SAO	-
<i>Security &amp; Investigation Activities</i>	STF	VEH, PA	-
Wholesale & Retail Trade	STF	FFH	VEH, ETEC
<i>Wholesale Trade</i>	STF	VEH, ETEC	FFH
<i>Retail Trade</i>	STF	SBFO, FFH	-
Real Estate Activities	STF	FFH	Crane, MAC
Professional, Scientific & Technical Activities	STF	MAC	VEH, FFH, ETEC
Community, Social & Personal Services	STF	OESM, ETEC	-
<i>Health &amp; Social Services</i>	STF	OESM	ETEC
<i>Education</i>	STF	FFH	SBMO
<i>Other Services Activities</i>	STF, MAC	-	VEH

Legend:

Type A Incidents		Type B Incidents	
CIBO	Caught In/Between Objects	CSBO	Cut/Stabbed by Objects
CFSE	Collapse/Failure of Structures & Equipment	DODS	Discharge of Dangerous Substances
Crane	Crane-related Incidents	ETBM	Exposure to/ Contact with Biological Materials
FFH	Falls from Height	ETEC	Exposure to/ Contact with Electric Current
FE	Fires & Explosion	ETET	Exposure to/ Contact with Extreme Temperature
SOD	Suffocation/Drowning	ETHS	Exposure to/ Contact with Hazardous Substances
SBFO	Struck by Falling Objects	MAC	Machinery Incidents
SBMO	Struck by Moving Objects		
VEH	Vehicular Incidents		
		OESM	Over-exertion/ Strenuous Movements
		OTH	Other Incident Types
		PA	Physical Assault
		SAO	Strike Against Objects
		SOO	Stepping on Objects
		STF	Slips, Trips & Falls

**Table 5a: Number of workplace minor injuries by selected industry, 2023 - 2024**

Industry	2023	2024	2023[N]	2024[N]
<b>All Industries</b>	<b>12,319</b>	<b>11,430</b>	<b>22,161</b>	<b>21,527</b>
Manufacturing	2,535	2,185	3,990	3,526
<i>Metalworking</i>	1,006	833	1,510	1,267
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	529	495	818	845
<i>Manufacture of Computer, Electronic &amp; Optical Products</i>	157	144	333	268
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	132	127	213	189
Construction	2,303	1,917	3,349	2,634
Accommodation & Food Service Activities	1,504	1,386	2,998	3,009
<i>Food &amp; Beverage Service Activities</i>	1,037	873	1,875	1,736
<i>Accommodation</i>	467	513	1,123	1,273
Transportation & Storage	952	859	1,656	1,530
<i>Logistics &amp; Transport</i>	729	665	1,260	1,204
Administrative & Support Service Activities	846	822	1,459	1,459
<i>Cleaning &amp; Landscape Maintenance Activities</i>	430	411	681	655
<i>Security &amp; Investigation Activities</i>	223	216	450	454
Wholesale & Retail Trade	718	708	1,289	1,315
<i>Wholesale Trade</i>	339	337	512	543
<i>Retail Trade</i>	379	371	777	772
Professional, Scientific & Technical Activities	395	381	721	785
Marine	283	238	467	377
Real Estate Activities	236	240	383	407
Financial & Insurance Services	140	132	300	336
Water Supply; Sewerage, Waste Management & Remediation Activities	168	184	392	353
Community, Social & Personal Services	2,032	2,200	4,715	5,382
<i>Health &amp; Social Services</i>	1,041	1,158	2,955	3,540
<i>Education</i>	405	421	718	728
<i>Other Services Activities</i>	291	310	538	559
<i>Arts, Entertainment &amp; Recreation</i>	213	209	366	375

[N] – New Series. All work injuries with any instance of medical leave or light duties.

**Table 5b: Rate of workplace minor injuries by selected industry, 2023 – 2024**

Per 100,000 workers

Industry	2023	2024	2023[N]	2024 [N]
<b>All Industries</b>	<b>337</b>	<b>310</b>	<b>606</b>	<b>584</b>
Manufacturing	593	513	934	828
<i>Metalworking</i>	958	805	1,438	1,224
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	867	778	1,341	1,329
<i>Manufacture of Computer, Electronic &amp; Optical Products</i>	196	186	416	345
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	506	512	816	762
Construction	440	358	640	492
Accommodation & Food Service Activities	556	512	1,107	1,111
<i>Food &amp; Beverage Service Activities</i>	436	368	788	732
<i>Accommodation</i>	1,415	1,527	3,403	3,789
Transportation & Storage	354	323	615	576
<i>Logistics &amp; Transport</i>	617	567	1,066	1,027
Administrative & Support Service Activities	346	330	596	586
<i>Cleaning &amp; Landscape Maintenance Activities</i>	522	490	827	782
<i>Security &amp; Investigation Activities</i>	463	434	934	912
Wholesale & Retail Trade	155	156	277	289
<i>Wholesale Trade</i>	112	113	168	182
<i>Retail Trade</i>	236	237	483	494
Professional, Scientific & Technical Activities	139	133	253	274
Marine	454	388	748	614
Real Estate Activities	310	294	503	499
Financial & Insurance Services	61	56	131	143
Water Supply; Sewerage, Waste Management & Remediation Activities	n.a.	n.a.	n.a.	n.a.
Community, Social & Personal Services	330	347	766	849
<i>Health &amp; Social Services</i>	513	544	1,457	1,662
<i>Education</i>	n.a.	n.a.	n.a.	n.a.
<i>Other Services Activities</i>	n.a.	n.a.	n.a.	n.a.
<i>Arts, Entertainment &amp; Recreation</i>	394	375	677	673

[N] – New Series. All work injuries with any instance of medical leave or light duties.



**Table 5c: Types of workplace minor injury, 2023 - 2024**

Workplace Minor Injury Types	2023	2024	2023 [N]	2024 [N]
<b>Total</b>	<b>12,319</b>	<b>11,430</b>	<b>22,161</b>	<b>21,527</b>
Cuts and Bruises	4,373	3,950	8,539	8,108
Sprains & Strains	1,807	1,668	3,665	3,454
Crushing, Fractures and Dislocations	2,953	2,798	3,313	3,090
Burns	448	363	955	868
Multiple Injuries	253	250	373	352
Bites and Stings	86	79	300	276
Puncture Wounds	186	152	281	254
Concussions	65	53	108	94
Electric Shock	1	0	17	18
Mosquito Borne	8	8	9	9
Others	2,139	2,109	4,601	5,004

[N] – New Series. All work injuries with any instance of medical leave or light duties.

**Table 5d: Number of workplace minor injuries by incident risk type (Type A/B), 2023 – 2024**

Incident Type (Cause)	2023	2024	2023 [N]	2024 [N]
<b>Total Workplace Minor Injuries</b>	<b>12,319</b>	<b>11,430</b>	<b>22,161</b>	<b>21,527</b>
<i>Type A (higher fatality risk)</i>	3,792	3,534	6,531	6,140
<i>Type B (Lower fatality risk)</i>	8,527	7,896	15,630	15,387

[N] – New Series. All work injuries with any instance of medical leave or light duties.

**Table 5e: Number of workplace minor injuries by key incident type (cause) and incident agent, 2023 – 2024**

Incident Type (Cause)	Incident Agent	2023	2024	2023 [N]	2024 [N]
<b>Total Workplace Minor Injuries for Type A</b>		<b>3,792</b>	<b>3,534</b>	<b>6,531</b>	<b>6,140</b>
Struck by Moving Objects	<b>Total</b>	<b>1,114</b>	<b>1,077</b>	<b>2,222</b>	<b>2,173</b>
	<i>Furniture &amp; Fittings</i>	184	225	431	539
	<i>Metal Items (excluding knives/needles)</i>	377	317	655	517
Struck by Falling Objects	<b>Total</b>	<b>947</b>	<b>946</b>	<b>1,680</b>	<b>1,619</b>
	<i>Metal Items (excluding knives/needles)</i>	291	289	475	452
	<i>Furniture &amp; Fittings</i>	127	160	286	312
Caught In/ Between Objects	<b>Total</b>	<b>584</b>	<b>495</b>	<b>949</b>	<b>848</b>
	<i>Metal Items (excluding knives/needles)</i>	245	189	372	283
	<i>Furniture &amp; Fittings</i>	116	128	240	269
Vehicular Incidents	<b>Total</b>	<b>588</b>	<b>524</b>	<b>926</b>	<b>839</b>
- Work-related Traffic Accidents	<b>Subtotal</b>	<b>208</b>	<b>185</b>	<b>324</b>	<b>321</b>
	<i>Motor Vehicles</i>	208	185	324	321
- In Workplaces	<b>Subtotal</b>	<b>380</b>	<b>338</b>	<b>602</b>	<b>517</b>
	<i>Motor Vehicles</i>	192	171	329	272
	<i>Vehicle - Forklifts</i>	93	79	120	102
Falls from Height	<b>Total</b>	<b>453</b>	<b>405</b>	<b>595</b>	<b>532</b>
	<i>Means of Access - Ladders</i>	341	300	453	402
	<i>Means of Access - Scaffold</i>	41	40	49	46

**Table 5e: Number of workplace minor injuries by key incident type (cause) and incident agent, 2023 – 2024 (Continued)**

Incident Type (Cause)	Incident Agent	2023	2024	2023 [N]	2024 [N]
<b>Total Workplace Minor Injuries for Type B</b>		<b>8,527</b>	<b>7,896</b>	<b>15,630</b>	<b>15,387</b>
Slips, Trips & Falls	<b>Total</b>	<b>3,696</b>	<b>3,447</b>	<b>6,090</b>	<b>5,946</b>
	<i>Physical Workplace - Floors/Level Surfaces</i>	1,881	1,639	3,106	2,837
	<i>Means of Access - Stairs or Steps</i>	555	584	911	950
	<i>Furniture &amp; Fittings</i>	216	229	381	457
Machinery Incidents	<b>Total</b>	<b>1,976</b>	<b>1,709</b>	<b>3,030</b>	<b>2,697</b>
	<i>Industrial Hand Tools</i>	705	570	1,059	839
	<i>Industrial Machines</i>	711	616	942	816
Over-exertion/ Strenuous Movements	<b>Total</b>	<b>849</b>	<b>868</b>	<b>1,660</b>	<b>1,760</b>
	<i>Human Factors</i>	461	490	961	1,011
	<i>Goods/Cargo</i>	176	146	337	307
Striking Against Objects	<b>Total</b>	<b>565</b>	<b>552</b>	<b>1,274</b>	<b>1,330</b>
	<i>Furniture &amp; Fittings</i>	169	177	434	497
	<i>Metal Items (excluding knives/needles)</i>	149	115	314	261
Physical Assault	<b>Total</b>	<b>178</b>	<b>151</b>	<b>880</b>	<b>952</b>
	<i>Human Factors</i>	178	151	880	952
Exposure to/ Contact with Extreme Temperatures	<b>Total</b>	<b>380</b>	<b>292</b>	<b>858</b>	<b>761</b>
	<i>Hot scalding liquid/Steam</i>	304	251	671	624
	<i>Industrial Machines</i>	27	12	62	47

**Table 5f: Top three incident types for workplace minor injuries by industry, 2024**

Industry	Top Three Incident Types		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
<b>All Industries</b>	<b>STF</b>	<b>MAC</b>	<b>SBMO</b>
Manufacturing	MAC	STF	SBFO
<i>Metalworking</i>	MAC	STF	SBMO
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	MAC	STF	SBFO
<i>Manufacture of Computer, Electronic &amp; Optical Products</i>	STF	MAC	SBFO
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	MAC	STF	SBFO
Construction	STF	MAC	SBFO
Accommodation & Food Service Activities	STF	MAC	ETET
<i>Food &amp; Beverage Service Activities</i>	STF	MAC	ETET
<i>Accommodation</i>	STF	SBMO	MAC
Transportation & Storage	STF	VEH	OESM
<i>Logistics &amp; Transport</i>	STF	VEH	SBFO
Administrative & Support Service Activities	STF	MAC	SBMO
<i>Cleaning &amp; Landscape Maintenance Activities</i>	STF	SBMO	MAC
<i>Security &amp; Investigation Activities</i>	STF	VEH	SBMO
Wholesale & Retail Trade	STF	MAC	OESM
<i>Wholesale Trade</i>	STF	MAC	OESM
<i>Retail Trade</i>	STF	MAC	OESM
Professional, Scientific & Technical Activities	STF	MAC	SBFO
Marine	MAC	STF	CIBO
Real Estate Activities	STF	MAC	CSBO
Financial & Insurance Services	STF	OESM	SBMO, MAC
Water Supply; Sewerage, Waste Management & Remediation Activities	STF	MAC	SBMO
Community, Social & Personal Services	STF	OESM	SBMO
<i>Health &amp; Social Services</i>	STF	OESM	SBMO
<i>Education</i>	STF	SBMO	OESM
<i>Other Services Activities</i>	STF	SBMO, MAC	-
<i>Arts, Entertainment &amp; Recreation</i>	STF	MAC	OESM

Legend:

Type A Incidents		Type B Incidents	
CIBO	Caught In/Between Objects	CSBO	Cut/Stabbed by Objects
CFSE	Collapse/Failure of Structures & Equipment	DODS	Discharge of Dangerous Substances
Crane	Crane-related Incidents	ETBM	Exposure to/ Contact with Biological Materials
FFH	Falls from Height	ETEC	Exposure to/ Contact with Electric Current
FE	Fires & Explosion	ETET	Exposure to/ Contact with Extreme Temperature
SOD	Suffocation/Drowning	ETHS	Exposure to/ Contact with Hazardous Substances
SBFO	Struck by Falling Objects	MAC	Machinery Incidents
SBMO	Struck by Moving Objects		
VEH	Vehicular Incidents		
		OESM	Over-exertion/ Strenuous Movements
		OTH	Other Incident Types
		PA	Physical Assault
		SAO	Strike Against Objects
		SOO	Stepping on Objects
		STF	Slips, Trips & Falls

**Table 5g: Top three incident types for workplace minor injuries by industry, 2024[N]**

Industry	Top Three Incident Types		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
<b>All Industries</b>	<b>STF</b>	<b>MAC</b>	<b>SBMO</b>
Manufacturing	MAC	STF	SBMO
<i>Metalworking</i>	MAC	SBMO	STF
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	STF	MAC	SBFO
<i>Manufacture of Computer, Electronic &amp; Optical Products</i>	STF	MAC	SAO
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	MAC	STF	SAO
Construction	STF	MAC	SBFO
Accommodation & Food Service Activities	STF	MAC	ETET
<i>Food &amp; Beverage Service Activities</i>	STF	MAC	ETET
<i>Accommodation</i>	STF	SBMO	SAO
Transportation & Storage	STF	VEH	OESM
<i>Logistics &amp; Transport</i>	STF	VEH	SBFO, OESM
Administrative & Support Service Activities	STF	SBMO	VEH
<i>Cleaning &amp; Landscape Maintenance Activities</i>	STF	SBMO	SAO
<i>Security &amp; Investigation Activities</i>	STF	VEH	SBMO
Wholesale & Retail Trade	STF	MAC	OESM
<i>Wholesale Trade</i>	STF	MAC	SBMO
<i>Retail Trade</i>	STF	MAC	SBFO
Professional, Scientific & Technical Activities	STF	MAC	SBMO
Marine	MAC	STF	CIBO
Real Estate Activities	STF	MAC	SAO
Financial & Insurance Services	STF	OESM	SBMO
Water Supply; Sewerage, Waste Management & Remediation Activities	STF	SBMO, OESM	-
Community, Social & Personal Services	STF	PA	OESM
<i>Health &amp; Social Services</i>	STF	PA	OESM
<i>Education</i>	STF	SBMO	OESM
<i>Other Services Activities</i>	STF	SBMO	MAC, SAO
<i>Arts, Entertainment &amp; Recreation</i>	STF	OESM	SBMO

[N] – New Series. All work injuries with any instance of medical leave or light duties.

Legend:

<u>Type A Incidents</u>		<u>Type B Incidents</u>	
CIBO	Caught In/Between Objects	CSBO	Cut/Stabbed by Objects
CFSE	Collapse/Failure of Structures & Equipment	DODS	Discharge of Dangerous Substances
Crane	Crane-related Incidents	ETBM	Exposure to/ Contact with Biological Materials
FFH	Falls from Height	ETEC	Exposure to/ Contact with Electric Current
FE	Fires & Explosion	ETET	Exposure to/ Contact with Extreme Temperature
SOD	Suffocation/Drowning	ETHS	Exposure to/ Contact with Hazardous Substances
SBFO	Struck by Falling Objects	MAC	Machinery Incidents
SBMO	Struck by Moving Objects		
VEH	Vehicular Incidents		
		OESM	Over-exertion/ Strenuous Movements
		OTH	Other Incident Types
		PA	Physical Assault
		SAO	Strike Against Objects
		SOO	Stepping on Objects
		STF	Slips, Trips & Falls

Table 6a: Number of dangerous occurrences by industry, 2023 - 2024

Industry	2023	2024
<b>All Industries</b>	<b>19</b>	<b>19</b>
Construction	9	5
Manufacturing	4	8
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	3	4
<i>Metalworking</i>	0	2
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	0	1
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	0	1
<i>Other Manufacturing</i>	1	0
Transportation & Storage	1	3
<i>Logistics &amp; Transport</i>	1	3
Wholesale & Retail Trade	0	1
<i>Wholesale Trade</i>	0	1
Real Estate Services	0	1
Administrative & Support Service Activities	2	0
<i>Cleaning &amp; Landscape Maintenance Activities</i>	1	0
<i>Office Administrative, Office Support &amp; Other Business Support Activities</i>	1	0
Marine	1	0
Electricity, Gas & Air-Conditioning Supply	1	0
Community, Social & Personal Services	1	1
<i>Arts, Entertainment &amp; Recreation</i>	0	1
<i>Other Services Activities</i>	1	0

Table 6b: Types of dangerous occurrences, 2023 - 2024

Incident Type	Incident Agent	2023	2023
<b>Total Dangerous Occurrences</b>		<b>19</b>	<b>19</b>
Collapse/Failure of Structure & Equipment	<b>Total</b>	<b>13</b>	<b>14</b>
	<i>Lifting Equipment - Cranes</i>	11	11
	<i>Lifting Equipment - Other Lifting Equipment</i>	0	2
	<i>Lifting Equipment - Lifts and Hoists</i>	0	1
	<i>Lifting Equipment - Piling Machines</i>	1	0
	<i>Lifting Equipment - Suspended Scaffold</i>	1	0
Fires & Explosion	<b>Total</b>	<b>6</b>	<b>5</b>
	<i>Explosives/ Flammable Substances</i>	3	2
	<i>Pressurised Equipment</i>	2	1
	<i>Industrial Machines</i>	0	1
	<i>Dust, Gas, Liquid &amp; Chemicals</i>	0	1
	<i>Electrical Installation</i>	1	0

**Table 7a: Number of occupational diseases cases by selected industry, 2023 - 2024**

Industry	2023	2024
<b>All Industries</b>	<b>1,229</b>	<b>899</b>
Manufacturing	557	357
<i>Metalworking</i>	328	205
<i>Manufacture of Transport Equipment</i>	69	67
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	37	23
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	29	10
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	31	13
Construction	108	95
Transportation & Storage	101	44
<i>Logistics &amp; Transport</i>	84	25
Marine	68	49
Accommodation & Food Service Activities	63	39
<i>Food &amp; Beverage Service Activities</i>	25	22
<i>Accommodation</i>	38	17
Wholesale & Retail Trade	48	45
<i>Wholesale Trade</i>	31	33
<i>Retail Trade</i>	17	12
Professional, Scientific & Technical Activities	52	45
Administrative & Support Service Activities	38	19
<i>Office Administrative, Office Support and Other Business Support Activities</i>	16	9
<i>Cleaning &amp; Landscape Maintenance Activities</i>	9	4
Financial & Insurance Services	8	6
Electricity, Gas & Air-Conditioning Supply	12	1
Water Supply; Sewerage, Waste Management & Remediation Activities	9	4
Real Estate Activities	11	11
Information & Communications	4	1
Community, Social & Personal Services	149	180
<i>Health &amp; Social Services</i>	104	158
<i>Other Services Activities</i>	27	8
<i>Education</i>	9	10
<i>Arts, Entertainment &amp; Recreation</i>	6	3

**Table 7b: Rate of occupational diseases incidence by selected industry, 2023 – 2024**

Per 100,000 workers

Industry	2023	2024
<b>All Industries</b>	<b>33.6</b>	<b>24.4</b>
Manufacturing	130.3	83.8
<i>Metalworking</i>	312.4	198.1
<i>Manufacture of Transport Equipment</i>	253.7	235.9
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	n.a.	n.a.
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	47.5	15.7
<i>Manufacture of Paper / Rubber / Plastic Products &amp; Printing</i>	118.8	52.4
Construction	20.6	17.7
Transportation & Storage	37.5	16.6
<i>Logistics &amp; Transport</i>	71.1	21.3
Marine	109.0	79.8
Accommodation & Food Service Activities	23.3	14.4
<i>Food &amp; Beverage Service Activities</i>	10.5	9.3
<i>Accommodation</i>	115.2	50.6
Wholesale & Retail Trade	10.3	9.9
<i>Wholesale Trade</i>	10.2	11.1
<i>Retail Trade</i>	10.6	7.7
Professional, Scientific & Technical Activities	18.3	15.7
Administrative & Support Service Activities	15.5	7.6
<i>Office Administrative, Office Support and Other Business Support Activities</i>	n.a.	n.a.
<i>Cleaning &amp; Landscape Maintenance Activities</i>	10.9	4.8
Financial & Insurance Services	3.5	2.5
Electricity, Gas & Air-Conditioning Supply	n.a.	n.a.
Water Supply; Sewerage, Waste Management & Remediation Activities	n.a.	n.a.
Real Estate Activities	14.5	13.5
Information & Communications	2.2	0.5
Community, Social & Personal Services	24.2	28.4
<i>Health &amp; Social Services</i>	51.3	74.2
<i>Other Services Activities</i>	n.a.	n.a.
<i>Education</i>	n.a.	n.a.
<i>Arts, Entertainment &amp; Recreation</i>	11.1	5.4



Table 7c: Number of occupational diseases cases by type, 2023 - 2024

Occupational Diseases by Types	2023	2024
<b>Total</b>	<b>1,229</b>	<b>899</b>
<b>Noise-induced Deafness</b>	<b>804</b>	<b>519</b>
<i>NID (E) - Early</i>	790	445
<i>NID (A) - Advanced</i>	14	7
<b>Work-related Musculoskeletal Disorders</b>	<b>353</b>	<b>249</b>
<i>Back injuries due to ergonomic risks</i>	334	229
<i>Tendinitis</i>	2	4
<i>Trigger Finger/Thumb</i>	0	1
<i>Nerve Disorder such as Carpal Tunnel Syndrome, Cubital Tunnel Syndrome</i>	1	0
<i>Lateral Epicondylitis (Tennis elbow)</i>	0	1
<i>Tenosynovitis</i>	0	1
<i>Others</i>	16	13
<b>Occupational Skin Disease</b>	<b>46</b>	<b>94</b>
<i>Eczema</i>	45	80
<i>Others</i>	1	14
<b>Compressed Air Illness</b>	<b>0</b>	<b>3</b>
<i>CAI Type 1</i>	0	1
<i>CAI Type 2</i>	0	2
<b>Cancers</b>	<b>6</b>	<b>2</b>
<i>Mesothelioma</i>	5	2
<b>Occupational Lung Disease</b>	<b>3</b>	<b>3</b>
<i>Occupational Asthma</i>	1	1
<i>Silicosis</i>	2	1
<i>Asbestosis</i>	0	1
<b>Infectious Disease</b>	<b>2</b>	<b>0</b>
<b>Heat Disorder</b>	<b>4</b>	<b>1</b>
<b>Barotrauma</b>	<b>2</b>	<b>3</b>
<i>Aural</i>	2	2
<i>Sinus</i>	0	1
<b>Others</b>	<b>9</b>	<b>25</b>

**Table 7d: Number of noise-induced deafness cases by selected industry, 2023 - 2024**

Industry	2023	2024
<b>All Industries</b>	<b>804</b>	<b>519</b>
Manufacturing	492	318
<i>Metalworking</i>	307	194
<i>Manufacture of Transport Equipment</i>	66	63
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	32	20
Marine	61	44
Construction	55	60
Transportation & Storage	72	28
<i>Logistics &amp; Transport</i>	62	10
Professional, Scientific & Technical Activities	41	39
Wholesale & Retail Trade	21	19
<i>Wholesale Trade</i>	17	19
<i>Retail Trade</i>	4	0
Water Supply; Sewerage, Waste Management & Remediation Activities	7	2
Financial & Insurance Services	1	0
Administrative & Support Service Activities	19	6
<i>Cleaning &amp; Landscape Maintenance Activities</i>	3	0
Community, Social & Personal Services	21	3
<i>Other Services Activities</i>	18	3
<i>Health &amp; Social Services</i>	2	0

**Table 7e: Number of work-related musculoskeletal disorders cases by selected industry, 2023 - 2024**

Industry	2023	2024
<b>All Industries</b>	<b>353</b>	<b>249</b>
Manufacturing	55	32
<i>Metalworking</i>	16	8
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	14	7
<i>Other Manufacturing</i>	5	4
<i>Manufacture of Transport Equipment</i>	3	4
Accommodation & Food Service Activities	58	36
<i>Accommodation</i>	34	17
<i>Food &amp; Beverage Service Activities</i>	24	19
Construction	41	28
Transportation & Storage	28	14
<i>Logistics &amp; Transport</i>	21	13
Administrative & Support Service Activities	15	11
<i>Cleaning &amp; Landscape Maintenance Activities</i>	4	3
<i>Security &amp; Investigation Activities</i>	3	1
Wholesale & Retail Trade	26	24
<i>Wholesale Trade</i>	13	13
<i>Retail Trade</i>	13	11
Electricity, Gas & Air-Conditioning Supply	3	0
Professional, Scientific & Technical Activities	8	3
Financial & Insurance Services	4	3
Marine	5	2
Real Estate Activities	9	11
Community, Social & Personal Services	94	81
<i>Health &amp; Social Services</i>	71	64
<i>Other Services Activities</i>	6	5
<i>Education</i>	8	8
<i>Arts, Entertainment &amp; Recreation</i>	6	3

**Table 7f: Number of occupational skin diseases cases by selected industry, 2023 - 2024**

Industry	2023	2024
<b>All Industries</b>	<b>46</b>	<b>94</b>
Manufacturing	6	3
<i>Metalworking</i>	4	1
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	0	1
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	0	1
<i>Other Manufacturing</i>	2	0
Construction	3	5
Accommodation & Food Service Activities	0	1
<i>Food &amp; Beverage Service Activities</i>	0	1
Professional, Scientific & Technical Activities	2	1
Administrative & Support Service Activities	2	1
<i>Cleaning &amp; Landscape Maintenance Activities</i>	1	1
Water Supply; Sewerage, Waste Management & Remediation Activities	0	1
Financial & Insurance Services	3	2
Community, Social & Personal Services	29	80
<i>Health &amp; Social Services</i>	26	79
<i>Other Services Activities</i>	3	0
Education	0	1

**Table 7g: Top causative agents of occupational skin diseases, 2024**

Causative Agents	No. of Cases
<b>All Occupational Skin Diseases</b>	<b>94</b>
Alcohol	55
Wet work	8
Cement	2
Rubber accelerators	2

**Table 8: Number of man-days lost to workplace incidents by selected industry, 2023 – 2024**

Industry	2023	2024	2023 [N]*	2024 [N]*
<b>All Industries</b>	<b>481,458</b>	<b>501,202</b>	<b>502,160</b>	<b>521,908</b>
Construction	176,918	178,526	179,050	180,016
Marine	7,317	35,921	7,658	36,172
Manufacturing	88,835	59,985	91,973	62,804
<i>Metalworking</i>	37,524	25,868	38,585	26,797
<i>Manufacture of Food, Beverages &amp; Tobacco</i>	23,674	16,629	24,330	17,399
<i>Manufacture of Petroleum Products &amp; Chemical Products</i>	1,797	1,971	1,980	2,099
Water Supply; Sewerage, Waste Management & Remediation Activities	4,834	21,571	5,261	21,895
Wholesale & Retail Trade	18,085	22,141	19,335	23,440
<i>Wholesale Trade</i>	6,201	15,654	6,588	16,083
<i>Retail Trade</i>	11,884	6,487	12,747	7,357
Transportation & Storage	68,427	73,033	69,953	74,432
<i>Logistics &amp; Transport</i>	51,438	39,323	52,574	40,426
Accommodation & Food Service Activities	21,715	26,446	25,053	29,958
<i>Accommodation</i>	7,954	8,090	9,331	9,650
<i>Food &amp; Beverage Service Activities</i>	13,761	18,356	15,722	20,308
Information & Communications	1,393	1,850	1,536	2,136
Financial & Insurance Services	8,432	2,861	8,758	3,262
Real Estate Activities	10,991	10,354	11,328	10,718
Professional, Scientific & Technical Activities	7,368	6,451	8,020	7,237
Administrative & Support Service Activities	20,666	13,644	22,053	15,052
<i>Cleaning &amp; Landscape Maintenance Activities</i>	13,721	7,224	14,303	7,780
<i>Security &amp; Investigation Activities</i>	3,101	3,241	3,590	3,762
Community, Social & Personal Services	43,263	46,825	48,643	53,052
<i>Health &amp; Social Services</i>	19,320	20,228	23,067	24,816
<i>Education</i>	7,722	9,448	8,371	10,051
<i>Other Services Activities</i>	10,993	5,597	11,515	6,123
<i>Arts, Entertainment &amp; Recreation</i>	3,580	3,330	3,913	3,677

[N] – New Series. All work injuries with any instance of medical leave or light duties.

\* Includes only work injuries with any instance of medical leave.

## ANNEX C1

### **BUSINESS UNDER SURVEILLANCE**

The Business under Surveillance (BUS) programme consists of two phases – Assessment and Surveillance.

The Assessment phase involves rigorous and methodical review on companies that are of concern to ascertain the effectiveness of their Risk Management programme as well as the strength of their WSH Management Systems.

Companies that fail the Assessment phase would be placed under the Surveillance phase. During the Surveillance phase, the Occupational Safety and Health Division (OSHD) of Ministry of Manpower (MOM) works closely with the senior management and WSH personnel of these BUS companies to carry out a gap analysis and to develop outcome-based action plans.

OSHD then conducts frequent inspections to verify the progress of the companies' implementation of their action plans and closely monitors the companies' WSH performance. BUS companies can only exit from the programme upon successful implementation of their Action Plan, achieved satisfactory audit outcomes, and have plans to build a strong WSH culture within the company.

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## ANNEX C2

### HYGIENE AND MEDICAL SURVEILLANCE

#### HYGIENE SURVEILLANCE

Measuring the exposure levels of specific workplace chemical hazards provide a good indication on whether the conditions in the work environment are within the Permissible Exposure Levels (PEL), as stipulated under the WSH (General Provisions) Regulations. Companies with chemical exposures exceeding 10% PEL are required to monitor the exposure levels at least annually, conducted by a competent person.

Under the WSH (Noise) Regulations, workplaces with 10 or more workers who are exposed to excessive noise are required to monitor their workers' noise exposure at least once every three years, or earlier when there are changes to the processes. The monitoring must be conducted by a competent person using calibrated equipment to ensure accuracy of results.

Industrial hygiene data from assessments conducted by MOM and results submitted by companies with in-plant monitoring are maintained within a National Database for Noise and Chemical Exposure. This enables MOM to proactively identify high-risk workplaces, evaluate trends in exposure levels and advise employers on control measures and appropriate monitoring programmes.

#### MEDICAL SURVEILLANCE

The Medical Surveillance Programme serves to monitor workers' exposure to specific hazards and to identify early and possibly reversible changes in health effects. The programme aims to prevent overt occupational diseases through early detection of cases with excessive occupational exposure to specific health hazards. It involves monitoring of workers' health and implementation of measures to minimise the risks. High-risk workplaces would be monitored more rigorously to ensure control measures are put in place.

This monitoring assesses the "internal dose" of the worker and the effects from exposure by determining:

- a) The concentrations of the chemicals or their metabolites in biological samples (measuring the absorption or body burden) indirectly via blood, urine, and/or end-exhaled air.
- b) The indicators of health effect related to the internal dose so as to identify early and reversible changes, such as degree of hearing loss, and effects on liver and kidney.

Central to the Medical Surveillance Programme is the WSH (Medical Examinations) Regulations which prescribe a list of 19 hazards requiring medical examinations which can only be conducted by Designated Workplace Doctors (DWDs) registered with MOM. In addition, Occupational Safety and Health Division (OSHD) of the MOM may also recommend the implementation of medical surveillance programmes for non-prescribed hazards if the health risk is significant and where biological indicators are available. Some of these hazards include toluene, trinitrotoluene, xylene, fluoride and hexane.

Based on the findings of the medical examinations, workers who are medically unfit or who are over-exposed to chemicals are suspended, either on a temporary or permanent basis. The objective is to ensure that all exposed workers remain healthy and fit for work while exposed to the hazards. Medical monitoring is conducted once every six months for lead and organophosphate, and annually for all other hazards.

## ANNEX C3

### SOURCE OF DATA

Data on workplace and work-related traffic injuries, dangerous occurrences and occupational diseases were collated from incident reports made by employers, occupiers, medical practitioners and private insurers in fulfilment of their obligations under the Workplace Safety and Health Act and Workplace Safety and Health (Incident Reporting) Regulations.

Medical and Hygiene Surveillance data were collated from reports submitted to OSHD, MOM as well as industrial hygiene data from assessments conducted by OSHD, MOM. Business Under Surveillance information was obtained from OSHD, MOM.

Employment data used in the computation of workplace fatal, injury and occupational disease incidence rates and data on the average weekly hours worked used in the estimation of man-hours worked were extracted from records within the Ministry of Manpower.

### DATA COVERAGE

The types of workplace and work-related traffic injuries and occupational diseases covered in the reported statistics include the following:

- Workplace and work-related traffic injuries sustained by employees and resulting in any instance of medical leave or light duties;
- Workplace and work-related traffic injuries sustained by employees and resulting in at least 24 hours of hospitalisation;
- Workplace and work-related traffic incidents resulting in the death of employees and self-employed persons;
- Workplace and work-related traffic incidents resulting in the injury of self-employed persons who have to be taken to the hospital for treatment; and
- Occupational diseases listed in the Second Schedule of the Workplace Safety and Health Act and Work Injury Compensation Act.



## ANNEX C4

### CONCEPTS AND DEFINITIONS

**Incident Agent** refers to the object or physical environment, which due to its hazardous nature/condition, leads to the occurrence of a particular type of incident. It is related to the incident, not injury.

**Incident Type (Cause)** refers to the type of event which resulted in the injury of a victim. Where the event involves a chain of incidents, the incident type should be the one that triggered the chain of other incidents. From 2022, a new sub-classification for Incident Type (Cause) have been introduced based on their fatality risk profile as shown below.

#### Higher fatality risk – Type A

- Caught in/between Objects
- Failure of Structures & Equipment
- Crane-related Incidents
- Falls from Height
- Fires & Explosion
- Suffocation/Drowning
- Struck by Falling Objects
- Struck by Moving Objects
- Vehicular Incidents

#### Lower fatality risk – Type B

- Cut/Stabbed by Objects
- Discharge of Dangerous Substances
- Exposure to/Contact with Biological Materials
- Exposure to/Contact with Electric current
- Exposure to/Contact with Extreme Temperatures
- Exposure to/Contact with Hazardous Substances
- Machinery Incidents
- Physical Assault
- Over-exertion/Strenuous Movements
- Slips, Trips & Falls
- Stepping on Objects
- Striking against Objects
- Others

**Major Injuries** refer to non-fatal injuries which are more severe in nature. Major injuries are defined using a combination of factors, including the nature of injury, part of the body injured, incident type and duration of medical leave. These include:

- amputation
  - blindness
  - deafness
  - paralysis
  - crushing, fractures and dislocations: head, back, chest and abdomen, neck, hip and pelvis
  - exposure to electric current
  - asphyxia/drowning
  - burns with more than 20 days of medical leave
  - concussion with more than 20 days of medical leave
  - mosquito borne diseases with more than 20 days of medical leave
  - virus outbreak with more than 20 days of medical leave
-

## ANNEX C5

### GLOSSARY OF COMMONLY USED TERMS

Term	Description
<b>Business Under Surveillance</b>	Refer to <b>Annex C1</b> and website below for information on Business Under Surveillance (BUS) programme. <a href="https://www.mom.gov.sg/workplace-safety-and-health/monitoring-and-surveillance/business-under-surveillance-programme">https://www.mom.gov.sg/workplace-safety-and-health/monitoring-and-surveillance/business-under-surveillance-programme</a>
<b>Dangerous Occurrences</b>	Dangerous Occurrences refer to the prescribed incidents with potential to cause serious damage, injury or death, such as crane collapse and explosion.
<b>Machinery Incidents</b>	Machinery Incidents include Struck by Moving Objects, Caught In/Between Objects and Cut/Stabbed by Objects where the agent(s) is an industrial machine, industrial hand tool or other machines and tools.
<b>Man-days Loss</b>	For the purpose of this publication, MOM considers man-days loss computations similar to the U.S. National Institute of Occupational Safety and Health (NIOSH)'s table of scheduled charges. For instance, a fatal injury and permanent total incapacity will be equivalent to the loss of 6,000 man-days, while other injuries will be based on factors including - body parts injured, degree of incapacity and number days of medical leave.
<b>Occupational Disease Incidence Rate</b>	$\frac{\text{No. of Occupational Disease Cases}}{\text{No. of Workers}} \times 100,000$
<b>Total Workplace Injury Rate</b>	$\frac{\text{No. of Fatal and Non-Fatal Workplace Injuries}}{\text{No. of Workers}} \times 100,000$
<b>Vehicular Incidents</b>	Vehicular Incidents include Struck by Moving Objects and Caught In/Between Objects where the agent(s) is a vehicle.

## GLOSSARY OF COMMONLY USED TERMS (CONTINUED)

Term	Description
<b>Workplace Health Surveillance</b>	Workplace Health Surveillance (WHS) is the monitoring of workplace environments to assess exposure levels of workers to workplace health hazards such as chemical or noise hazard, as well as the monitoring of workers' health through medical screening to detect over exposure and early signs of occupational diseases. In 2021, the programme was enhanced (WHS+) to (i) proactively identify at-risk companies and subject them to surveillance; (ii) focus on upstream control measures; and (iii) increase compliance through stronger enforcement levers.
<b>Workplace Hygiene surveillance</b>	Hygiene surveillance determines the levels of persons' exposure to noise and airborne toxic substances in the workplace. Refer to <b>Annex C2</b> for more information.
<b>Workplace Injury</b>	A workplace injury is any personal injury or death resulting from a workplace accident, including work-related traffic injuries. Refer to <b>Annexes C3 &amp; C4</b> for the types of workplace injuries covered.
<b>Workplace Medical Surveillance</b>	Medical surveillance monitors the results of the medical examinations of workers who are exposed to specific hazards for early detection and prevention of potential ill health. Examinations are conducted by Designated Workplace Doctors (DWDs). Refer to <b>Annex C2</b> for more information.
<b>Work-related Traffic Accident</b>	A work-related traffic accident (WRTA) is any unintended event that causes bodily injury to a vocational driver or rider while he or she is driving any vehicle in the course of work.

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ISSN 2424 - 7774 Print / ISSN 2424 - 7782 Online  
Published in March 2025 by the  
Ministry of Manpower  
1500 Bendemeer Road #04-01  
Ministry of Manpower Services Centre  
Singapore 339946  
website: [www.mom.gov.sg](http://www.mom.gov.sg)

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