

CHEMICAL INDUSTRIES¹

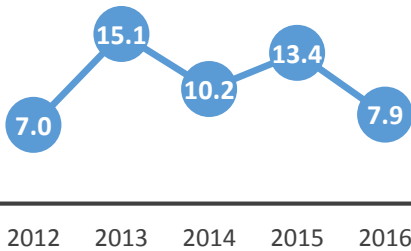
WORKPLACE SAFETY & HEALTH (WSH) REPORT (2012 – 2016)

Fatal Injuries

1 fatal incident due to fire and explosion in 2015

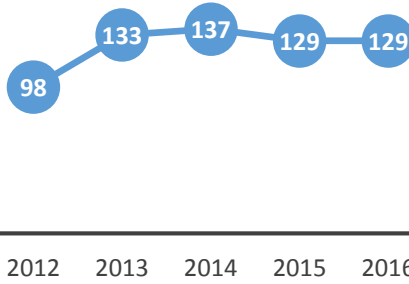
Non-Fatal Injuries

Major Injury Rate²



Fire & Explosion and Caught in/between Objects were the leading incident types

Minor Injury Rate²



Slips, Trips & Falls were the leading incident type

Top 3 incident types accounted for 51% of non-fatal injuries

- 1) Slips, Trips & Falls (21%)**
 - Floor/level surfaces were the main incident agent
- 2) Struck by Moving Objects (17%)**
 - Forklift, excavators & other industrial trucks were the main incident agent
- 3) Caught in/between Objects (13%)**
 - Industrial machines were the main incident agent

Injured Worker's Profile

Majority of the injured workers were found to be in their **30s & below**

Majority of the injured workers were to be in their **first 2 years of employment**

Industry Best Practices

Air Liquide Singapore Pte Ltd uses ultraviolet(UV)/infrared(IR) flame detectors instead of the commonly used smoke/heat detectors, as UV/IR flame detector minimises the chances of false alarms. It is a dual band detector that is sensitive to UV and IR radiation emitted by flames.

In **Glaxo Wellcome Manufacturing Pte Ltd (GSK) Jurong**, all newly employed staff undergo robust induction training programmes. In addition, operators who work in the production building are required to go through hands-on training skids, conducted by in-house WSQ qualified trainers to ensure the training's quality. These training skids are found in GSK's Site Learning Zone, a safe learning environment located within GSK's premises. They simulate some operations like changing of valves, filters and Lock-Out-Tag-Out system, giving employees the opportunity to familiarize themselves with the operations. Employees are only certified to perform their tasks in the production areas after passing all the required modules.

¹ **Chemical industries** refer to manufacture of refined petroleum products, manufacture of chemicals and chemical products, manufacture of pharmaceuticals and biological products and process and industrial plant engineering services.

² **Major and minor injury rates** refer to the number of major and minor injuries per 100,000 employed persons respectively.

For more information, please visit the WSH Council website at www.wshc.sg.