

Part-1

Introduction to Health & Safety

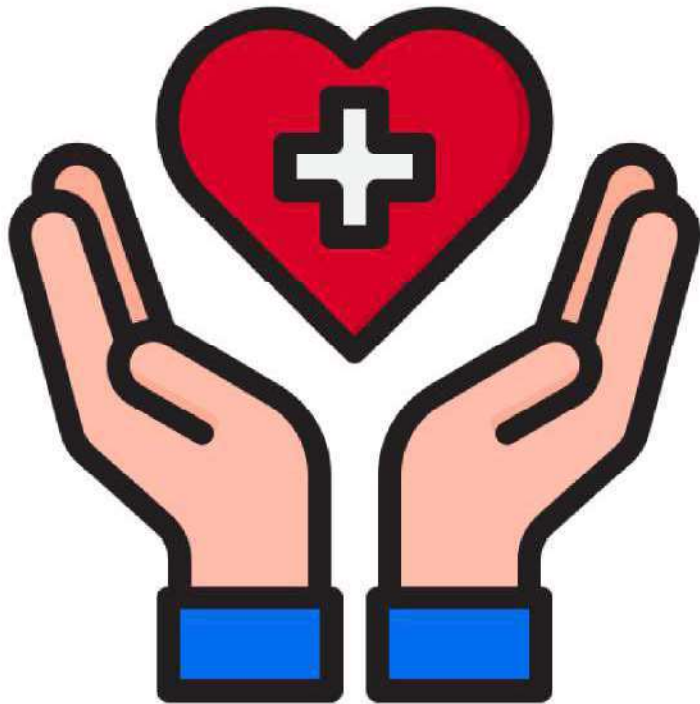
Safety

The condition of being protected from or unlikely to cause danger, risk or injury.



Health

The protection of people's bodies and minds from illnesses caused by the materials, processes, or procedures used in the workplace.



Environmental Protection

Arrangements to address activities in the workplace that impact the environment (including water, air, and soil) and, potentially, the health and safety of employees and others. These activities encompass waste and effluent disposal as well as atmospheric pollution.



Work-related Ill-health

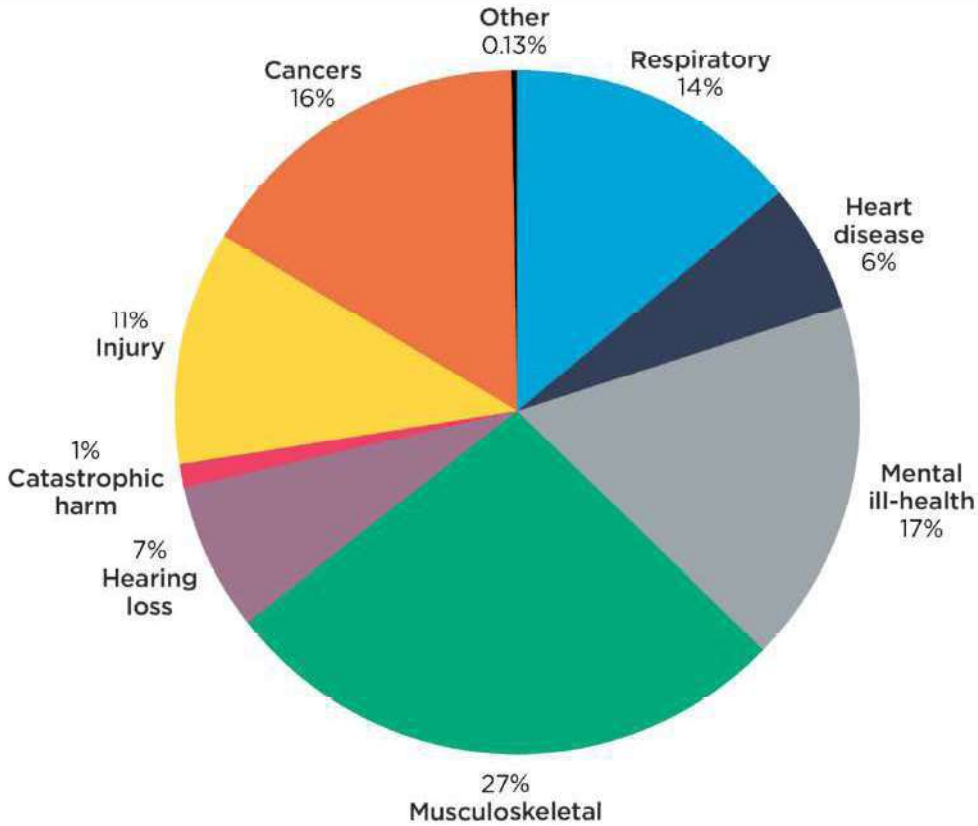
Work-related ill-health is concerned with those illnesses or physical and mental disorders that are either caused or triggered by workplace activities. Such conditions may be induced by the particular work activity of the individual or by activities of others in the workplace. The time interval between exposure and the onset of the illness may be short (e.g. asthma attacks) or long (e.g. deafness or cancer).



Work-related Injury & Deaths

The International Labour Organization ILO estimates that some 2.3 million women and men around the world succumb to work-related accidents or diseases every year; this corresponds to over 6000 deaths every single day. Worldwide, there are around 340 million occupational accidents and 160 million victims of work-related illnesses annually.

<p>TOXIC EXPOSURE</p>	<p>WORKING IN CONFINED SPACES</p>
<p>REPETITIVE MOTION INJURIES</p>	<p>HEAVY LIFTING INJURIES</p>
<p>EXTREME TEMPERATURES</p>	<p>ELECTRICAL HAZARDS</p>
<p>DANGEROUS NOISE LEVELS</p>	<p>FLYING PARTICLES</p>



Incident

An adverse occurrence that has either led to or has the potential to result in personal injuries, illnesses, damage to assets, production losses, environmental harm or harm to third parties.

INCIDENT REPORTING



Accident

Accident is an unexpected, unplanned and unwanted occurrence which is occurred by unsafe act and unsafe condition or combination of both, which can be resulted in injury to person and damage to property and environment.



Near Miss

A near miss is an incident that resulted in no injury, illness, and/or damage (loss) to people or assets.

All accidents are incidents but not all incidents are accidents.



Unsafe Acts & Unsafe Conditions

Unsafe Acts

Unsafe acts are actions or behaviors that can lead to accidents or injuries. They are typically committed by individuals who fail to follow safety rules, take shortcuts, or engage in risky behavior.



Unsafe Acts & Unsafe Conditions

Unsafe Conditions

Unsafe conditions refer to situations in the workplace that have the potential to cause harm or injury to employees.



Unsafe Acts

- Approximately 80% of all workplace injuries are attributed to unsafe acts taken by individuals.

Some examples of unsafe acts are:

- Speed – Operating a machine at a speed exceeding its design specifications.
- Unauthorized work – entering a confined space before it has been declared safe.
- Adjusting machinery in motion - Attempting to lubricate bearings or change drive belts while the machine is still operating.
- Failure to wear personal protective equipment (PPE)– not wearing safety goggles when grinding.

Unsafe Conditions

- A study attributes 20% of all workplace injuries occurs due to unsafe working conditions.

Here are examples of unsafe conditions:

- Poor guarding - inadequate or inefficient guarding measures.
- Defective conditions - related to hand tools, equipment, or substances.
- Poor layout - issues with work flow, overcrowding, and congestion.
- Loud noise - which can make it difficult to hear instructions, etc.
- Inadequate illumination or ventilation - leading to issues with visibility or breathing.

Examples of Unsafe Acts



Examples of Unsafe Conditions

