

HSE AWARENESS TRAINING

Health, Safety & Environment



Presented By: Farhan



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Basic Terms

1) Hazard

➤ Anything with potential to cause harm.

a) **Physical Hazards**- caused by physical conditions

Eg: Slips, trips & falls (wet floors, uneven surfaces)

Poor lighting

b) **Chemical Hazards** – Cleaning chemicals, Solvents

c) **Biological Hazards**- Bacteria viruses, Contaminated surface

d) **Ergonomic Hazards**- related to poor body posture and workplace design.

Eg: Poor sitting posture, Repetitive work, Improper lifting.

e) **Mechanical Hazards** – Rotating Machinery, Sharp blades, Pinch Points

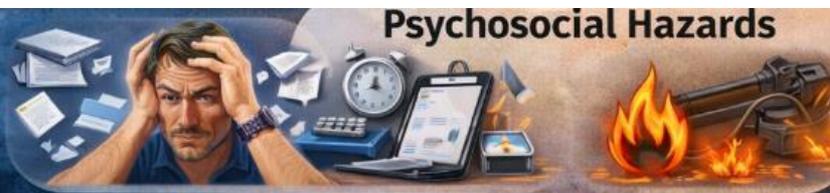
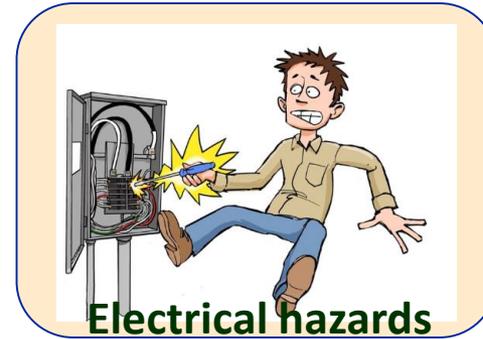
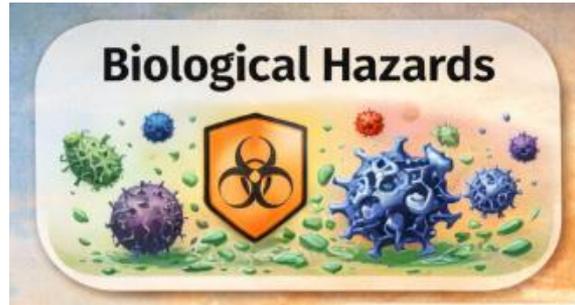
f) **Electrical Hazards** – Exposed wires, Damaged Cables,

g) **Fire Hazards** – Flammable liquids, Smoking in restricted areas.

h) **Psychosocial Hazards** - Work stress, Long working hours.



Basic Terms



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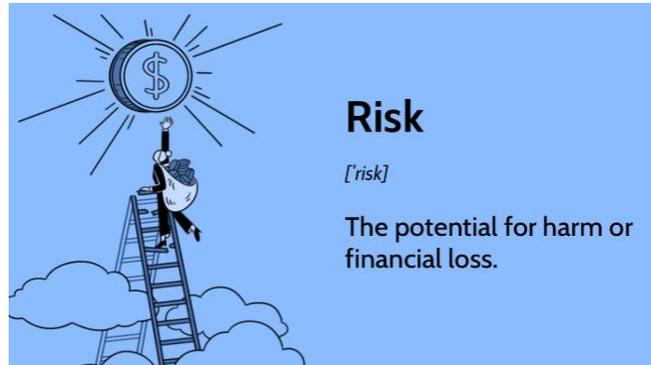
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Basic Terms

2) RISK

- **Risk** is the **chance (likelihood)** that a hazard will cause harm **and how serious** that harm could be
- **In simple words:**
Risk = How likely an accident is × How bad the injury could be

HAZARD	RISK
Wet floor	The possibility of someone slipping and getting injured



Factors of Risk

Likelihood (Probability)

How likely is it to happen
Very Likely, Likely, Unlikely

Severity (Consequence)

How serious would the injury or damage be?
Minor (Small cut), Serious (Fracture, Burn),
Severe (Fatality , Permanent Injury)

Likelihood (From Table 2)	Consequence (From Table 1)				
	Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Rare (1)	1	2	3	4	5
Possible (2)	2	4	6	8	10
Likely (3)	3	6	9	12	15
Often (4)	4	8	12	16	20
Frequent/ Almost Certain (5)	5	10	15	20	25
15 - 25	Extreme Risk	Activity or industry should not proceed in current form.			
8 - 12	High Risk	Activity or industry should be modified to include remedial planning and action and be subject to detailed OSH assessment.			
4 - 6	Moderate Risk	Activity or industry can operate subject to management and /or modification.			
1 - 3	Low Risk	No immediate action required, unless escalation of risk is possible.			

Table 3 - Risk Rating



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Area Impacted (a)	Insignificant Consequences (Score = 1)	Minor Consequences (Score = 2)	Moderate Consequences (Score = 3)	Major Consequences (Score = 4)	Catastrophic Consequences (Score = 5)
Human Health and Safety	Minor injuries, which may require self-administered first aid. Injured personnel can continue to perform normal duties.	Injuries requiring on-site treatment by medical practitioner. Personnel unable to continue to perform duties.	Serious injuries requiring off-site treatment by medical practitioner or immediate evacuation to hospital. Potential long-term or permanently disabling effects.	Single fatality.	Multiple fatalities.
Production Loss	Incident event without causing production loss.	Production loss or delay up to one week.	Production loss or delay of one week to one month.	Production loss or delay for over one month.	Loss of licence to operate or ability to produce indefinitely.
Total Cost of Impacts or Incident Event	Financial loss (compensation, fines, cost to repair, plant damage) of less than AED5,000.	Financial loss (compensation, fines, cost to repair, plant damage) of AED5,000 - AED50,000.	Financial loss (compensation, fines, cost to repair, plant damage) of AED50,000 - AED500,000	Financial loss (compensation, fines, cost to repair, plant damage) of AED500,000 - AED10M.	Severe financial penalties or legal liabilities. Financial loss (compensation, fines, cost to repair, plant damage) of greater than AED10M.

Table 1- Hazard Consequence

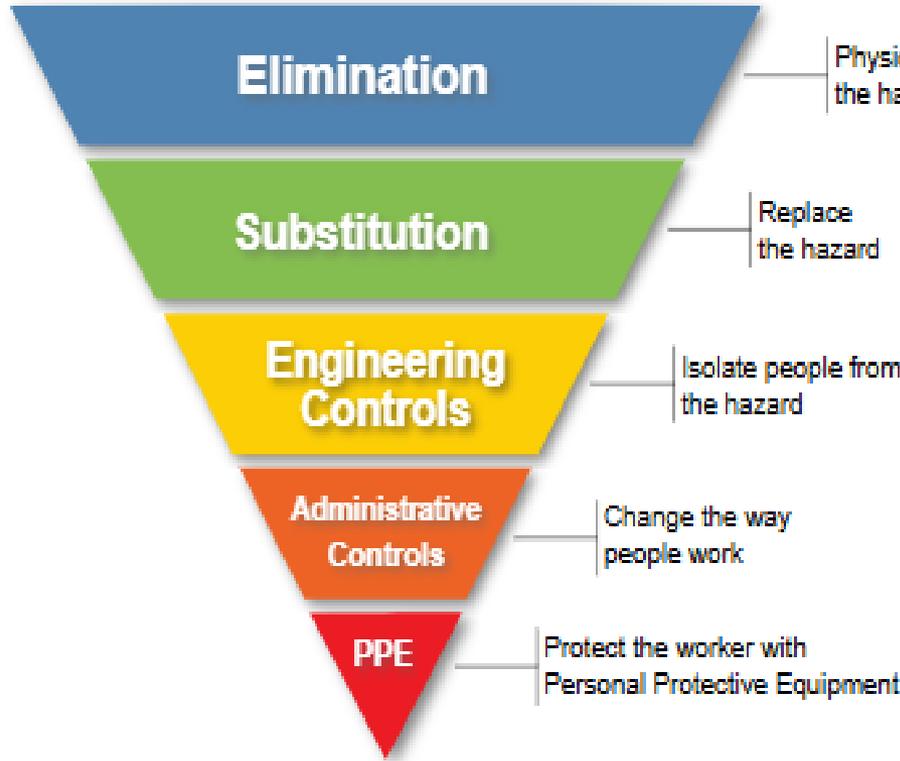
Descriptor	Likely Frequency	Probability
Frequent	Occurs frequently	5
Often	Occurs several times per year	4
Likely	Has occurred more than once	3
Possible	Has occurred	2
Rare	Never occurred	1

Table 2 – Likelihood

SI No	Activity Step	Hazard	Risks/Impacts	Likelihood (L)	Consequence (C)	Risk Rating (L×C)	Risk Level	Control Measures	Residual Risk Rating
3	Loading and unloading of test weight	Falling Weights	Damage to personnel/Weights, Floor or Balances	2	3	6	Moderate	1a. Ensure all personnel involved are trained in the calibration process and proper lifting techniques. 2b Always use necessary Personal Protective Equipment for the equipment.	3

Hierarchy of Controls

Most effective
Least effective



Basic Terms

3) **Unsafe Act:** (Wrong action by people)

An **unsafe act** is when a person behaves in a way that can cause an accident. Eg: Not wearing PPE, Running in the workplace, Ignoring safety rules.

4) **Unsafe Condition:** (Unsafe workplace environment)

An **unsafe condition** is a dangerous situation in the workplace.. Eg: Wet Oily Floor, Exposed electrical wires, Poor lighting

5) **Accident:** (Harm has Happened)

An **accident** is an unplanned event that **causes injury, illness, or damage.**

Eg: Person slips and gets injured, Fire causes property damage

6) **Near Miss:** (Accident Almost happened)

A **near miss** is an unplanned event that **could have caused injury or damage but didn't.**

Eg: Person almost slips but doesn't fall, Tool falls near someone but doesn't hit

7) **Incident:**

An **incident** is any unplanned event related to work. Eg : Accident, Near Miss, Damage withoy injury



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Unsafe condition



Unsafe act



Near miss



Accident



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SCALING NEW ► HEIGHTS

Thank you!



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