OCCUPATIONAL HEALTH & SAFETY







Hazard:

• Source, situation or act with a potential for harm in terms of human injury or illness, or combination of these. (OHSAS 18001 Article 3.6.)

• <u>Potential</u> which exists at the workplace or may arise from outside the workplace to cause harm or damage which could affect the worker or the workplace; (OHS Law #6331, Article 3 (1))



Risk:

• Combination of the likelihood of an occurence of a hazardous event or exposure(s) and the severity of injury or illness that can be caused by the event or exposure(s)

(OHSAS 18001 Article 3.21)

the combination of the **probability** of harm occurring and the **severity** of the harm once it occurs.



the combination of

the **probability** of harm occurring and the **severity** of the harm



• Hazard and risk relationship likes **potential energy vs kinetic energy relationship**.





Taking Precaution

It refers to eliminate or reduce the risks related to occupational health and safety at all stages of the work carried out in the workplace.



Let's take a look of some examples about Hazard and Risk





Table. Examples of some hazard & risk

*Hunting in the area which is full of sharks: Hazard possibility of loss of life: Risk

- * Long working hours : Hazard life imbalance : Risk
- * working without helmets in the mining areas: Hazard Possibility of falling stones: Risk
 - working with chemicals : Hazard Breathing-tasting- contact : Risk

(According to the records, the number of children who drink bleach is very high)



*Hand tools: Hazard

Hand cut: Risk

* Working with flammable materials, like petrol: Hazard

Fire: Risk















leaving things UNGUARDED is a HAZARD

> having them STOLEN is a RISK











work machine as an umbrella

As an helmet?



Stay out of brath so that nothing splashes in your face





Hazard sources are listed below:

- Individual factors
- Environmental factors
- Work related factors
- Factors related with material used
- Factors related with machine/equipment used

 A work related event in which an injury or ill health or fatality occured or could have occured

Accident:

Incident:

• An incident which an injury or illness actually occurs

Near – Miss :

• An incident where no injury or illness occurs

(an event not causing harm, but has the potential to cause injury or ill health)







Near miss



Luckily, the box didn't hurt him.





Status of Turkey (2016) – recorded!



NUMBER OF WORKPLACE

App.1,900,000



NUMBER OF WORKERS

App.18,000,000





NUMBER OF WORKERS DIED IN ACCIDENTS

1,405

STATISTICAL DATA*



*: SGK Statistical Annual

STATISTICAL DATA*

Fatality Rate (Per 100,000 emplooyees)



*: SGK Statistical Annuals/ <u>www.osha.org</u> Türkiye ölüm hızı hesaplanırken 18.000.000 sigortalı baz alınmıştır

10

One hundred thousand



98% of work accidents can be prevented !2% of work accidents are unpredictable, so it can not be prevented

