OCCUPATIONAL HEALTH & SAFETY





HAZARD and RISK Definitions



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:

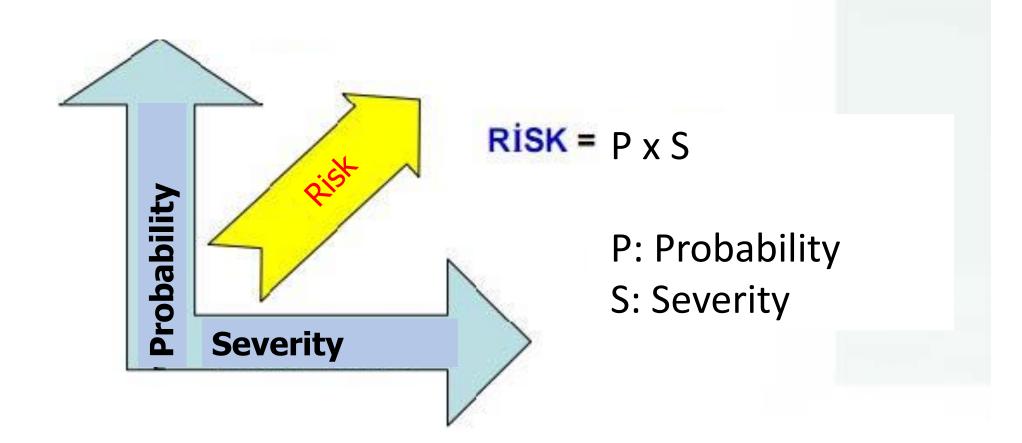
• Combination of the likelihood of an occurrence of a hazardous event or exposure(s) and the severity of injury or illness that can be caused by the event or exposure(s)

(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.



Hazard is accepted as potential energy,



• risk is accepted as kinetic energy.

According to these definitions,



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



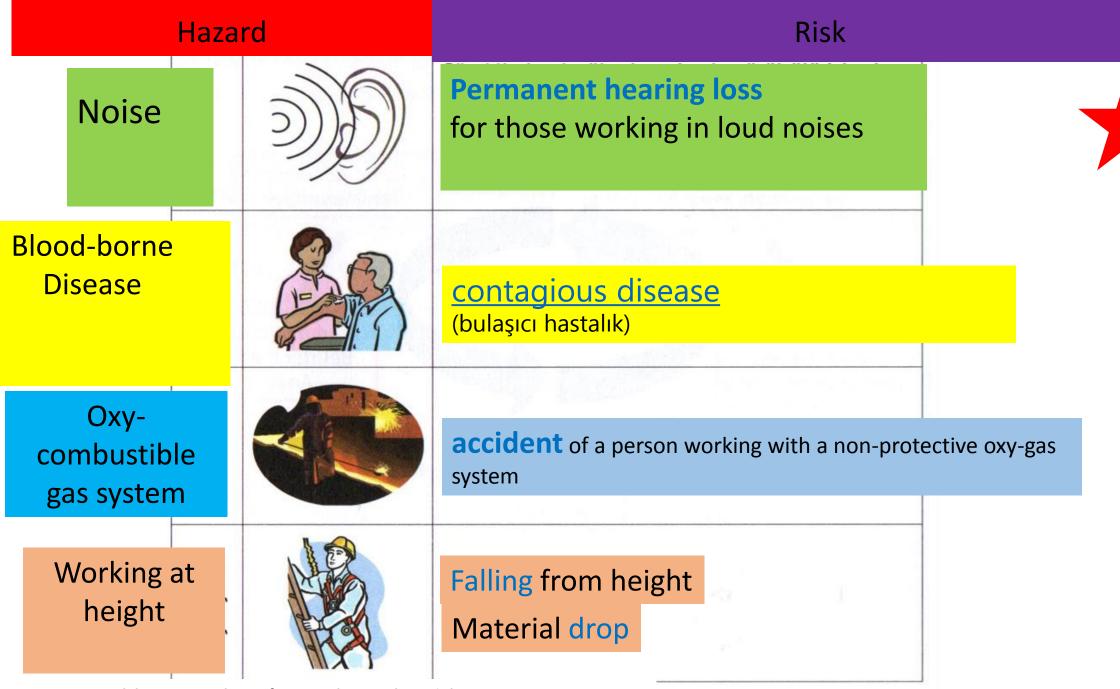


Table. Examples of some hazard & risk

*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

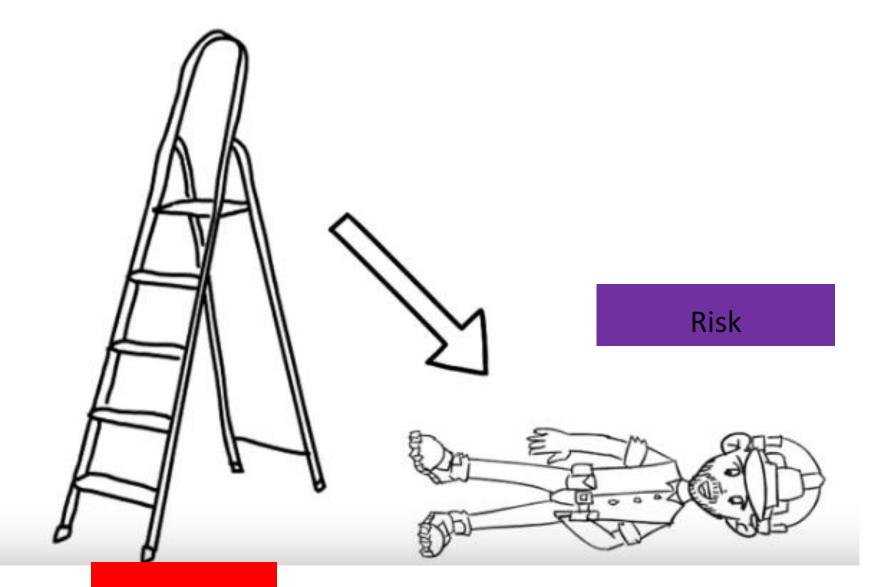
Hand cut: Risk

* Working with flammable materials, like

petrol: Hazard

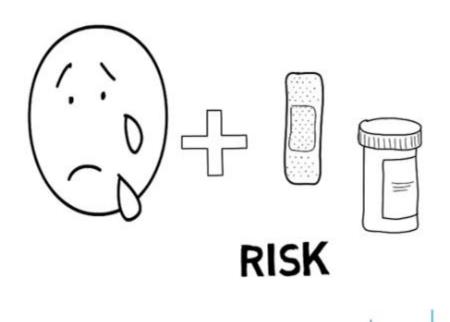
Fire: Risk





Hazard



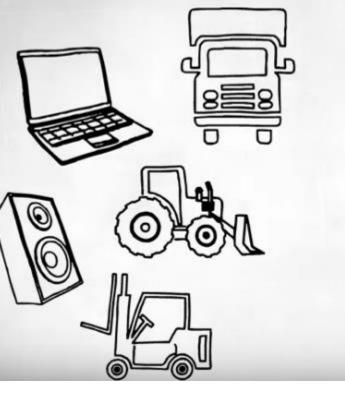


A RIVER IS A HAZARD



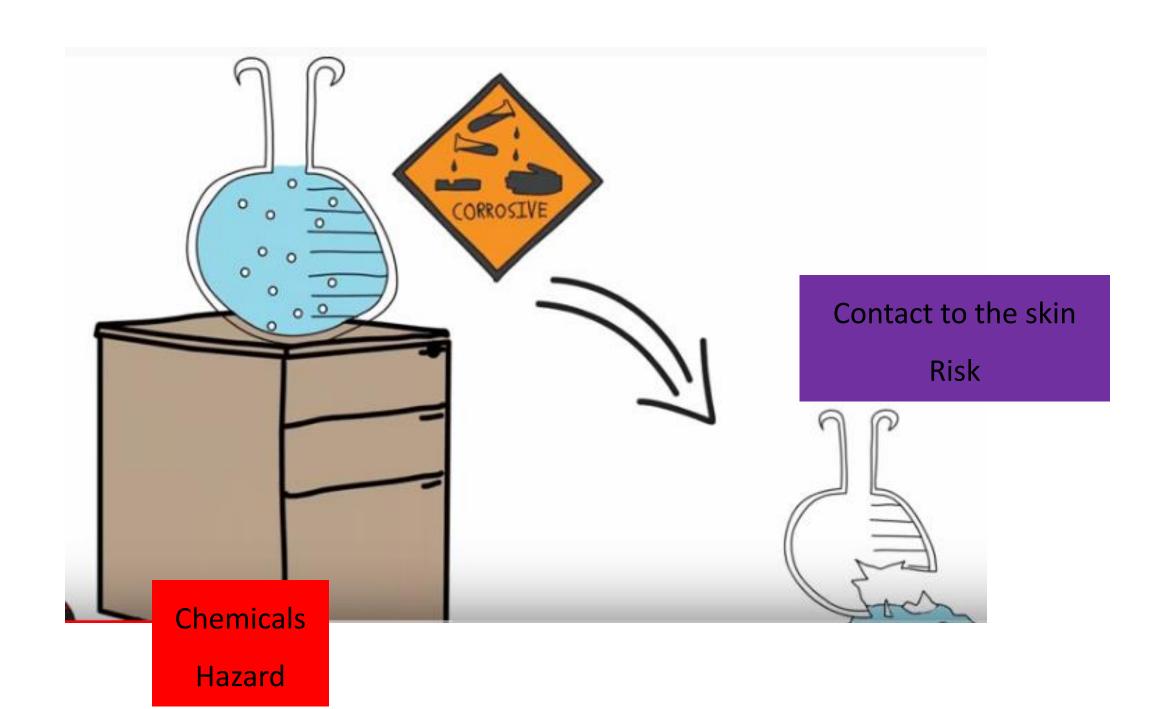
FLOODING IS A RISK

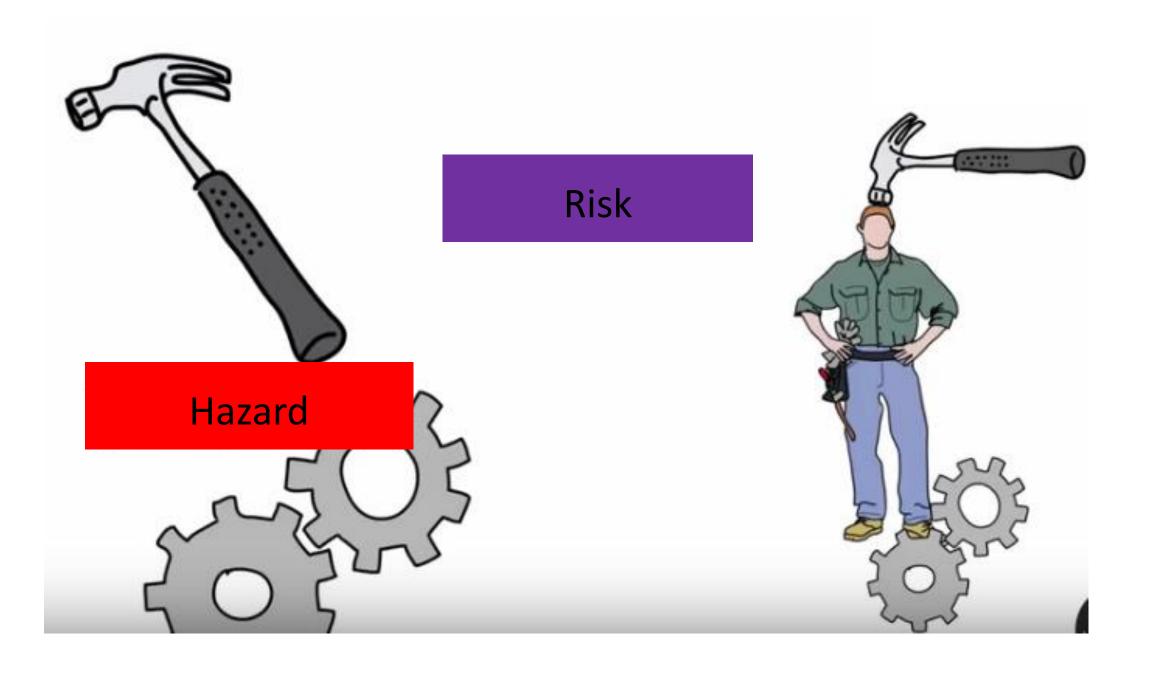


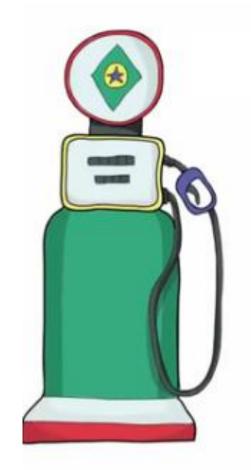


leaving things UNGUARDED is a HAZARD

STOLEN
is a
RISK



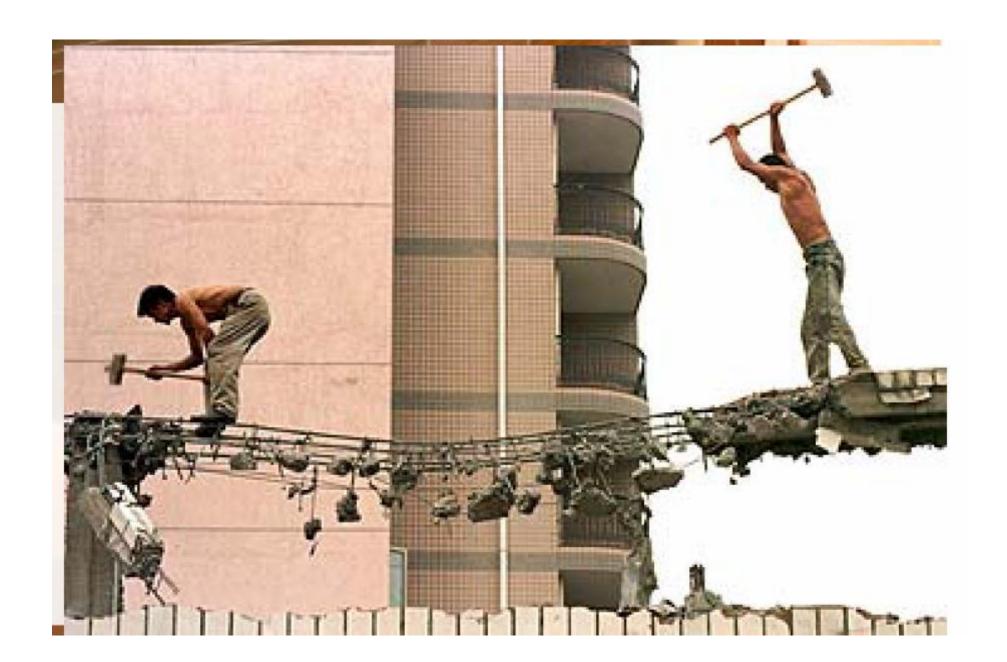




HAZARD

RISK

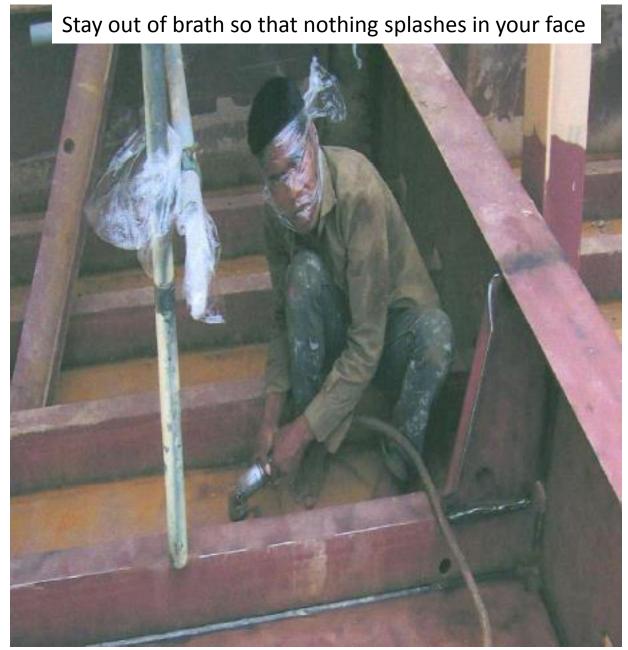




work machine as an umbrella

As an helmet?







Hazard sources are listed below:

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

Incident:

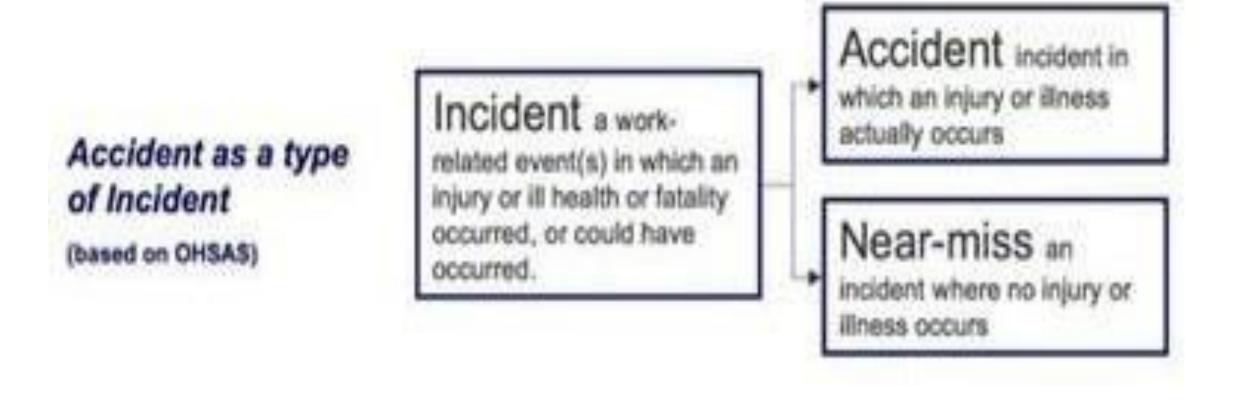
 A work related event in which an injury or ill health or fatality occured or could have occured

Accident:

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!



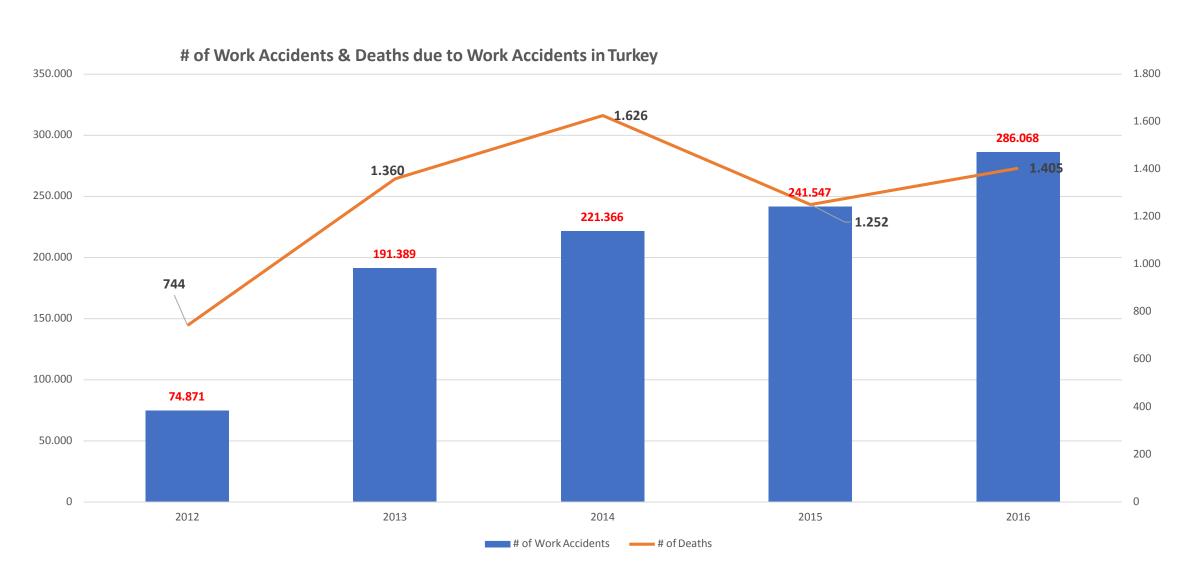






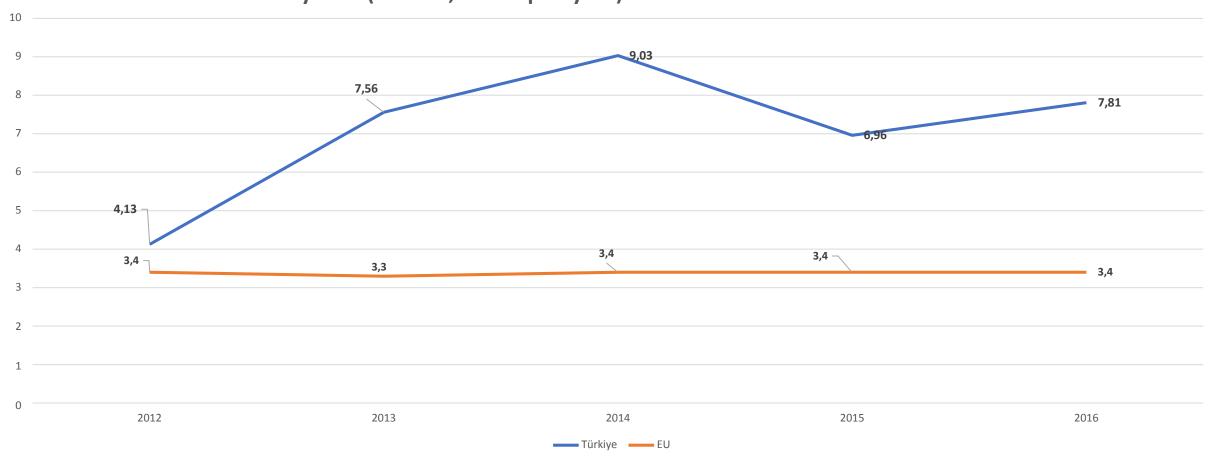
1,405

STATISTICAL DATA*



STATISTICAL DATA*

Fatality Rate (Per 100,000 emplooyees)





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



100 % of occupational diseases can be prevented by true OHS System!