OCCUPATIONAL HEALTH & SAFETY





Occupational Disease:

Any illness associated with a particular occupation or industry. Such diseases result from a variety of biological, chemical, physical, and psychological factors (hazards) that are present in the work

environment.







Occupational Disease Examples:

Contact Dermatitis



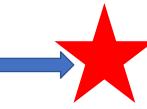
Sourced from working with chemicals (Chemical Hazard)

Occupational Cancer



Sourced from working with chemicals (Chemical Hazard)

Musculoskeletal Diseases



Sourced from working position(s)

(Ergonomical Hazard)

Silicosis

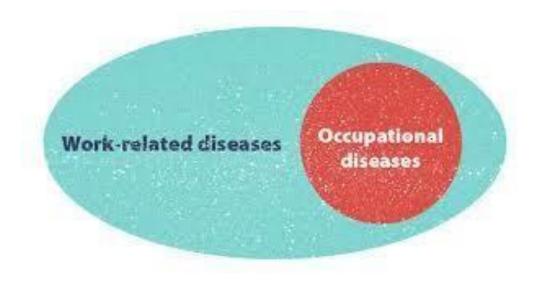


Sourced from fine particles/dust

(Physical Hazard)

Work-Related Disease:

"Work-related diseases" have multiple causes, where factors in the work environment may play a role, together with other risk factors, in the development of such diseases.





In daily life

accelerating the development of the disease

Trigger

Formaldehyde Carbon disulphide Arsenic Coronary heart disease
Asthma

Work – Related Diseases

Working with

ASBESTOS

DIRECT EFFECT

ASBESTOSIS

Occupational Disease !

Occupational Medicine:

This is concerned with the effect of all kinds of work on health and the effect of health on a worker's <u>ability</u> and <u>efficiency</u>.



Risk Assessment

It is the careful examination of what could cause harm to people, equipment, environment or property.

It is required to know what the OHS hazards and risks are,

And to prevent «Death» and «personal injury»,

and also to prevent the direct and indirect costs that follow the accidents.



Risk Assessment

Risk assessment is a term used to describe the overall process or method where you:

- •Identify hazards and risk factors that have the potential to cause harm (hazard identification).
- •Analyze and evaluate the risk associated with that hazard (risk analysis, and risk evaluation).
- •Determine appropriate ways to eliminate the hazard, or control the risk when the hazard cannot be eliminated (risk control)



Is the risk acceptable or not?

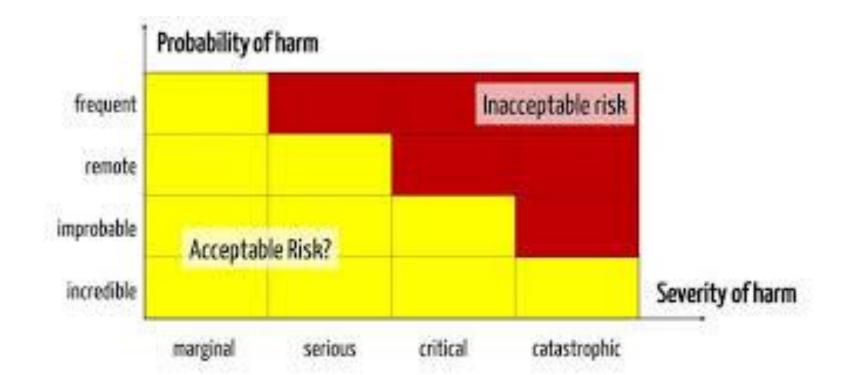
Risk assessment

Step 1: Identify the hazards. Step 2: Decide who might be harmed and how. Step 3: Evaluate the risks and decide on precautions. Step 4: Record your findings and implement them. Step 5: Review your assessment and update if necessary.

Acceptable Risk:



acceptable risk is a risk that has been reduced to a level that can be tolerated by the organization having regard to its legal obligations and its own **OHS** policy





HAZARD	RISK	Probability	Severity	Present Risk Assessment (probability x severity	Present measure	Measures to be taken	New Probabiliy	New Severity	New Risk Assessment (probability x severity
Working with Asbestos	Serious lung diseases if fibres released into air and inhaled.	Very high (5)	Very high (5)	Very high (25)	No	1) Elimination 2) Substitution 3) Engineering methods 4) Administrative methods 5) PPE	Low (2)	Very high (5)	Low (10)
Flammable gases	Fire, Smoke inhalation, Burns	High (4)	Very high (5)	Very high (20)	No	Correct Storage, caution signs, tranings, PPE	Low (2)	Very high (5)	Low (10)
Manuel handling	Suffering from back pain	High (4)	High (4)	Very high (16)	No	Use lift truck, porters trollet etc., training	Very Low (1)	High (4)	Very Low (4)
Noise	Hearing damages	Very high (5)	Very high (5)	Very high (25)	No	Caution signs	High (4)	Very high (5)	Very high (20)
Noise	Hearing damages	Very high (5)	Very high (5)	Very high (25)	No	Using Ear plugs when it exceeds 85 dB	Low (2)	Moderate (3)	Very Low (6)



Table. An example for a risk assessment

Who must do the Risk Assessment?

- 1) Employer
- 2) OHS Expert
- 3) Workplace doctor
- 4) Working agent
- 5) Authorized staff

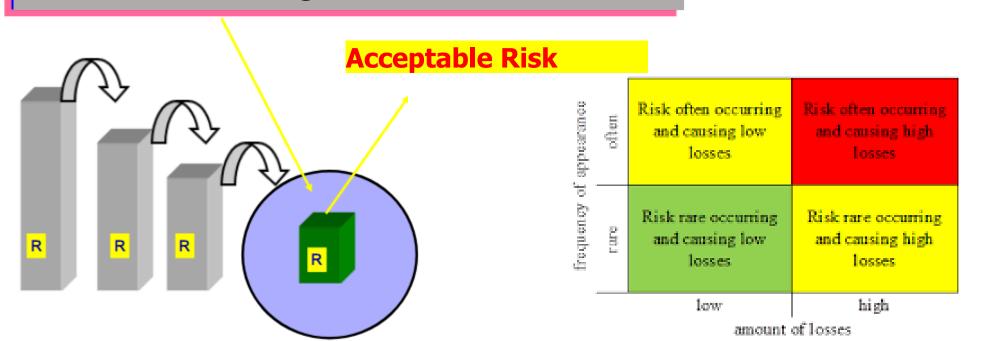
They all must sign the Risk Assessment



Your aim must be poviding the security:

SAFETY SECURITY

the ability to stay out of the unacceptable level of risks during work



Color scale:								
	unacceptable risk							
	tol erate d risk							
	acceptable risk							

So, Occupational Health and Safety:

Improves a company's occupational health and safety standards.

Ensures good business,

Protects the physical and mental health of the employee, a better brand image, and higher employee morale etc.





These studies are; <u>systematic</u> <u>and scientific</u> <u>studies</u> that are carried out in order to protect themselves from conditions that may harm health at workplaces.



The main purposes of OHS are;

** to assure safe and healthful working conditions for employees

**to prevent work accidents and occupational diseases



**to provide security and continuity in production.

**to provide a healthy and safe working environment



As a result, quality and efficiency increase

SAFETY CULTURE

-definition -

It is the way in which safety is managed in a workplace. It is the combination of beliefs, perceptions and attitudes of employees toward the safety of workers and the overall safety of the work environment.





While sandpapering the toy, You must wear safety glasses to prevent splashing some tiny wood particules to your face.

occupational health and safety <u>Culture</u>
begins from family and then is followed by
national security culture



Arthur D Little

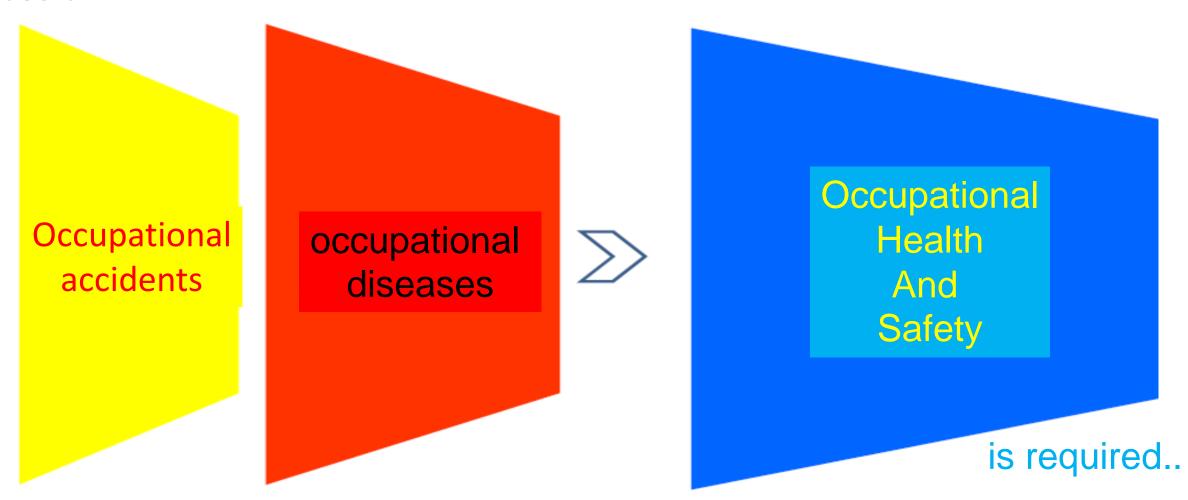


"Don't worry. We can clean up after we get back from the safety meeting."

Recommended references:

- www.worksafe.wa.gov.au
- www.safetyline.wa.gov.au
- https://www.google.com.tr/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0ahUKEwjgqufxgP_WAhXBCpoK HdbiC9kQtwIIMDAB&url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Da-YkLaFvmo8&usg=AOvVaw06eb5XbQtYH1DdorOUAyig
- https://www.youtube.com/watch?v=xwsmMue2q18
- https://www.google.com.tr/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwipjcvVg__WAhVJKpoK HbvEBwAQyCkIJzAA&url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DHD1e3uc_eQE&usg=AOvVaw1oc9wxLNRlclgIgu1 NtYny

Because of



If OHS laws are applied properly;

Occupational diseases can be avoided completely = 100 %.



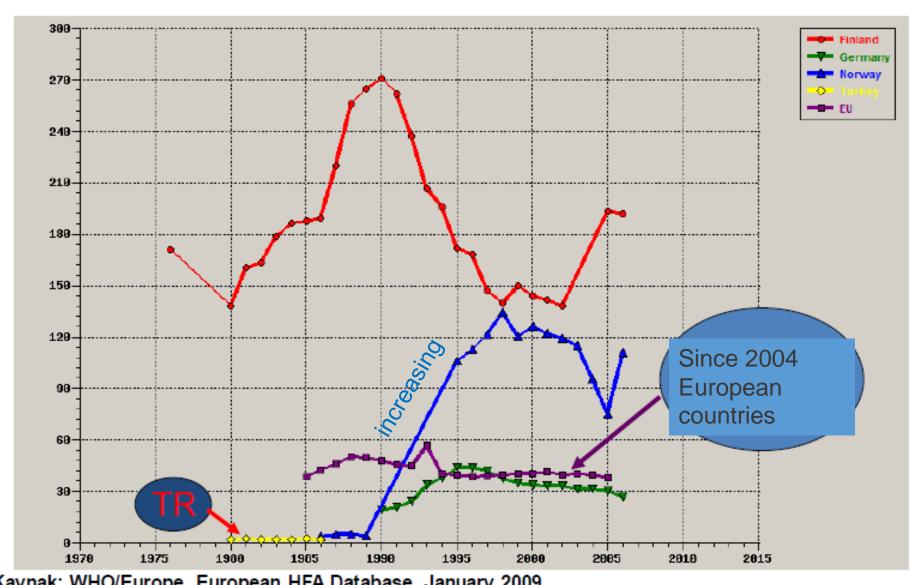








Lets have a look at Occupational Disease Statics in world



Kaynak: WHO/Europe, European HFA Database, January 2009_

