HSE-SECTION, HR-DEPARTMENT

Risk assessment

- Risk assessment
- HSE non-conformities



What is risk?

• A risk- possibility of losing something of value.



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What is Risk assessment

- Risk assessment is a systematic review of what might cause undesirable incidents and what consequences these may have for the working environment.
- A risk assessment must also identify measures that form a basis for reducing risk.
- A risk assessment can improve safety in the working environment.

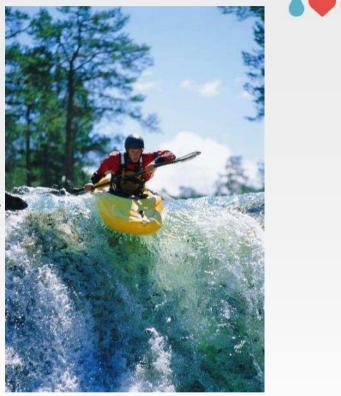
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Why risk assess?

To prevent:

Hazards/problems for people, material or the environment.

→ To be able to take measures that improves safety



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Why risk assess?

- The most important thing about risk assessment is to prevent injury or illness due to the job or studies.
- In addition, we want to protect our other values. We risk assess to get an overview of the hazards and unwanted incidents of employees, students at UiB.
- Employees or students may be exposed to dangers in the work and learning environment that may have consequences for their health. The dangers can also have consequences for the university in the form of absence, loss of production or reputation loss.
- We want to know the probability of an unwanted event to occur, and what we can do to prevent it from happening.

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Who will carry out a risk assessment?

- Simple risk assessments can be carried out by individuals.
- More comprehensive risk assessments should be conducted by an analysis group. The group can consist of 5-7 people with expertise in the process, activity, or object to be considered.

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Your responsibility:

Contributing to risk assessments and in carrying out measures.





Key points in a simple risk assessment:

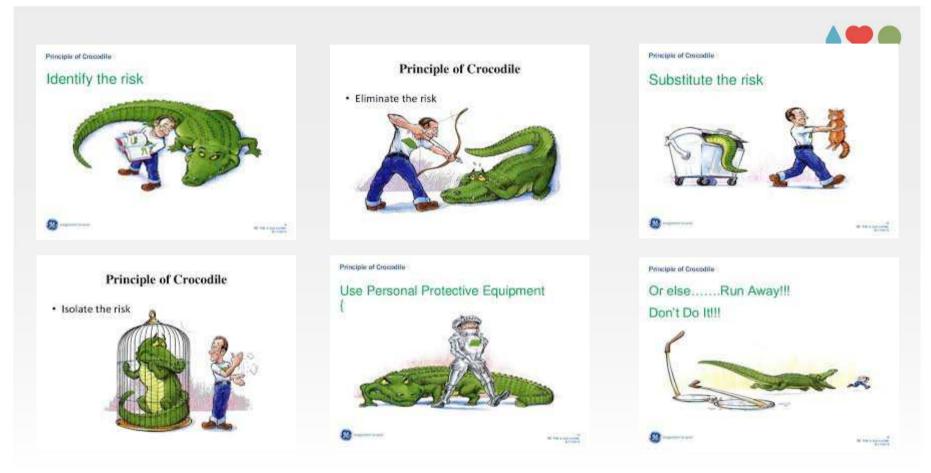
- What can go wrong?
- What can we do to prevent it?
- What can we do to reduce the consequences if it happens?



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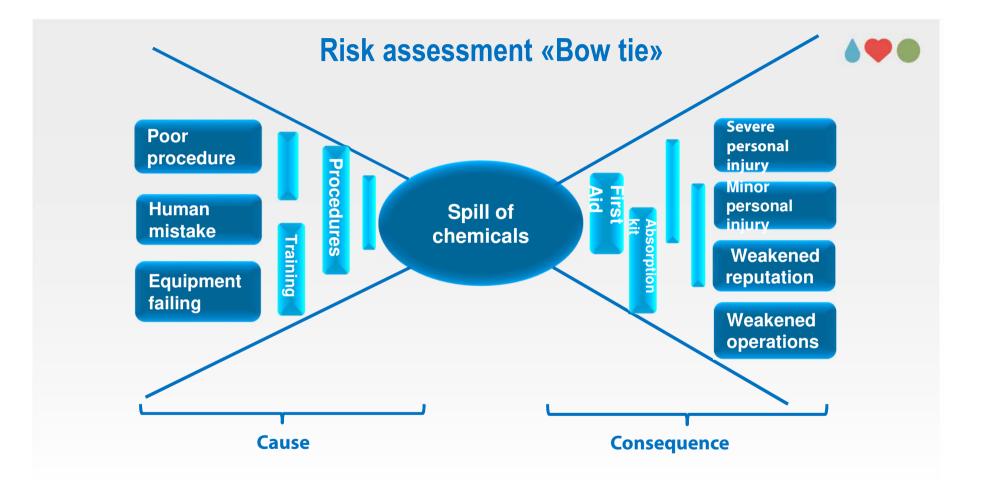


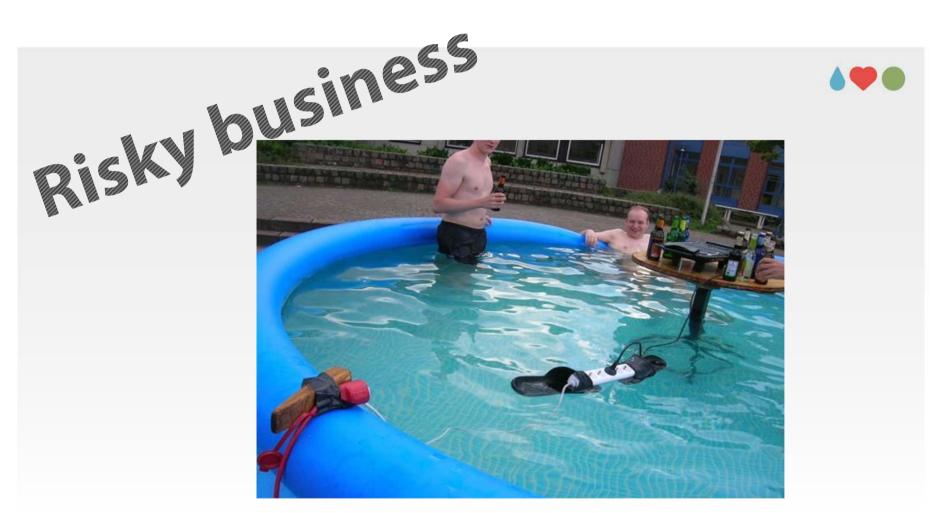
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How to risk assess?

Secure job analysis

Risk assess using matrix

Risk assess using electronic system

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Secure job analysis – a simple method

- Identify hazards with a work operation you are going to perform
- Based on a check list → go through the list before start working
- Divide the work into sections → what can go wrong?

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Secure job analysis

	FORM FOR S	ECURE JOB ANALY	ŚIŚ	Theme Risk a Date 28.09. Page 91	ssessment
Unit				Date:	1
Responsible:				Number of pages:	
Performed by:				pages	
Any prerequisites for the v Subtasks/subdivisions:	vork/process:	Measures:		Doppersible /	Done
SUDIASKS/SUDDIVISIONS.	incidents/ hazard sources	measures.		Responsible / deadline	Done
	ė.				
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Is the total risk acceptable	(Yes/No)?	1	Final date/ signature:	<u> </u>	
Conclusions/comments/no	otes:		- men gener signature.		

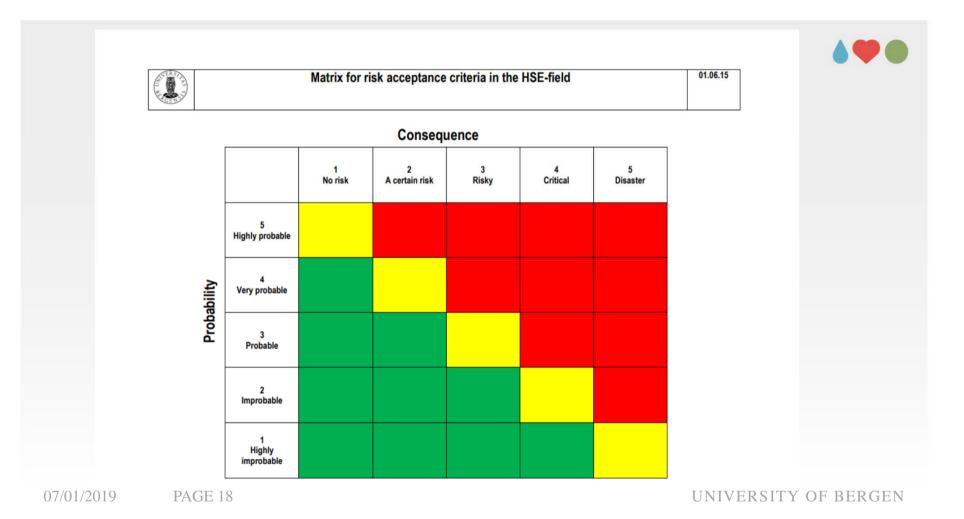
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Risk assessment

- Using a matrix
- Using risk acceptance criteria for probability and consequence
- Can be performed using paper, excel-sheet, etc
- Can also be performed using an electronic risk assessment system

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Risk acceptance criteria for probability and consequences in the HSE field

01/06/2015

Criteria for probability

	Probability	Description/frequency
S	Highly probable	Occurs daily/weekly
4	Very probable	Occurs weekty/monthly
e	Probable	Occurs every 6 months/year
2	Improbable	Occurs less often than once per year
-	Highly improbable	Occurs less often than every 10 years/has never occurred

Criteria for consequence

		P	People	Ope	Operation/function at unit	Ţ	The environment	Mat	Material values	Re	Reputation	
		•	Death	•	Primary activity does not	•	Irreversible	•	Financial loss for the	•	Weakened national and international	
4	Disaster	•	50-100% incapacity		work		environmental damage		unit of over 60 % of		collaboration and credibility	
2			for work	•	Infrastructure collapses	•	Repeated major breach		working capital	•	Significantly reduced recruitment	
		_					of the law			•	Significant reduction in financing	
		•	Absence up to 1 year	•	Primary activity works	•	Possible irreversible	•	Financial loss for the	•	Weakened national collaboration and	_
	Critical	•	Permanent health		poorly		environmental damage		unit of up to 40 % of		credibility	
4			problems	•	Problem in maintaining	•	Major breach of the law		working capital	•	Reduced recruitment	
					proper operation		2			•	Significant reduction in financing	
		•	Absence up to 6-8	•	Primary activity is reduced	•	Long-term reversible	•	Financial loss for the	•	Weakened regional collaboration and	_
		_	weeks	•	Weakened operation		environmental damage		unit of up to 20 % of		credibility	
3	KISKY	•	Need for medical			•	Repeated breach of the		working capital	•	Reduced recruitment	
			treatment				law			•	Reduction in financing	
		_		_		•	Repeated emissions					
	A contain	•	Brief absence	•	Short-term reduction in	•	Short-term reversible	•	Financial loss for the	•	Weakened local collaboration and	
•	A Certain	•	Need for medical		operation		environmental damage		unit of up to 10 % of		credibility	
V	LISK		treatment	•	Redisposition of resources	•	Single breach of the law		working capital	•	Somewhat reduced recruitment	
		_			8	•	Single emission			•	Somewhat reduced financing	
	Main all	•	No absence	•	No reduction in operation	•	No measurable	•	Insignificant financial	•	No effect on credibility	
-	NOTION	•	Minor first aid	•	Does not lead to significant		environmental damage		loss for the unit	•	No reduction of recruitment	
		_			additional impact					•	No effect on financing	

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Electronic risk assessment system

- At UiB we use CIM
- The system combine the probability and consequence of an undesirable incident to find the degree of risk.
- In CIM there are 3 different methods to choose between (rough analysis, simplified analysis and full analysis).
- Outside this system, there are many other methods that can be used.

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 \rightarrow More about risk assessment at the HSE-gateway



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HSE-non conformities

• HSE non-conformities are all adverse events and/or matters that have resulted or may result in harm to people, the environment and property.





HSE non-conformities

• By reporting **HSE non-conformities** you can help make your working environment safer!



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HSE non-conformities

HSE non-conformities are all events and/or matters that have resulted or may result in harm to people, the environment and property, such as:

- fires and explosions
- break-in, theft, robbery
- damage to property
- personal injuries
- harmful emissions to the environment
- incorrect handling of chemicals, gas, biological agents and sources of radiation
- breaches of HSE legislation, guidelines and routines.