

NTNU	Risk assessment			Prepared by	Number	Date
				HSE section	HMSRV2603E	04.02.2011
HSE/KS				Approved by	Page	Replaces
				The Rector	1 out of 2	01.12.2006

Unit: IPM
 Line manager: Torger Welo
 Date: 31.08.2017

Participants in the risk assessment (including their function):
 Veileder: *Per Jørgensen*
 Student: *Sigbjørn Sævi*

Activity from the identification process form	Potential undesirable incident/strain	Likelihood (1-5)	Consequence:			Risk value	Comments/status Suggested measures
			Human (A-E)	Environment (A-E)	Economy/material (A-E)		
Literature study	vonde ledd og muskulatur	2	B	A	A	B2	Bedre kontorutstyr
Sea trial	man over board	1	D	A	C	D1	forsikring, kurs
Workshop	Cuts, bruises, stades	3	B	A	B	B3	kurs, utstyr
— — —	death by machining	1	E	A	E	E1	korre ernes og vær.

- Likelihood, e.g.:**
- Minimal
 - Low
 - Medium
 - High
 - Very high
- Consequence, e.g.:**
- Safe
 - Relatively safe
 - Dangerous
 - Critical
 - Very critical

Risk value (each one to be estimated separately):
 Human = Likelihood x Human Consequence
 Environmental = Likelihood x Environmental consequence
 Financial/material = Likelihood x Consequence for Economy/material

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Potential undesirable incident/strain

Identify possible incidents and conditions that may lead to situations that pose a hazard to people, the environment and any materiel/equipment involved.

Criteria for the assessment of likelihood and consequence in relation to fieldwork

Each activity is assessed according to a worst-case scenario. Likelihood and consequence are to be assessed separately for each potential undesirable incident. Before starting on the quantification, the participants should agree what they understand by the assessment criteria:

Likelihood		Consequence	
Minimal 1	Low 2	Medium 3	High 4
Once every 50 years or less	Once every 10 years or less	Once a year or less	Once a month or less
			Very high 5
			Once a week

Grading	Human	Environment	Financial/materiel
E Very critical	May produce fatality/ies	Very prolonged, non-reversible damage	Shutdown of work > 1 year.
D Critical	Permanent injury, may produce serious serious health damage/sickness.	Prolonged damage. Long recovery time.	Shutdown of work 0.5-1 year.
C Dangerous	Serious personal injury	Minor damage. Long recovery time	Shutdown of work < 1 month
B Relatively safe	Injury that requires medical treatment	Minor damage. Short recovery time	Shutdown of work < 1week
A Safe	Injury that requires first aid	Insignificant damage. Short recovery time	Shutdown of work < 1day

The unit makes its own decision as to whether opting to fill in or not consequences for economy/materiel, for example if the unit is going to use particularly valuable equipment. It is up to the individual unit to choose the assessment criteria for this column.

Risk = Likelihood x Consequence

Please calculate the risk value for "Human", "Environment" and, if chosen, "Economy/materiel", separately.

About the column "Comments/status, suggested preventative and corrective measures":

Measures can impact on both likelihood and consequences. Prioritise measures that can prevent the incident from occurring; in other words, likelihood-reducing measures are to be prioritised above greater emergency preparedness, i.e. consequence-reducing measures.