



Introduction to HSE

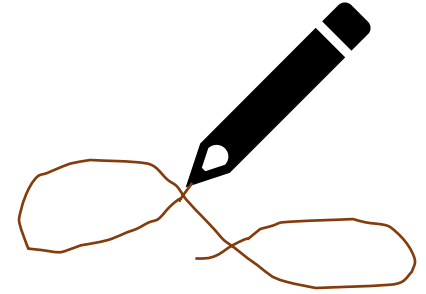
Work in group: Risk mapping

Risk mapping

How to identify risks that may occur in your workplace ?

What can happen?

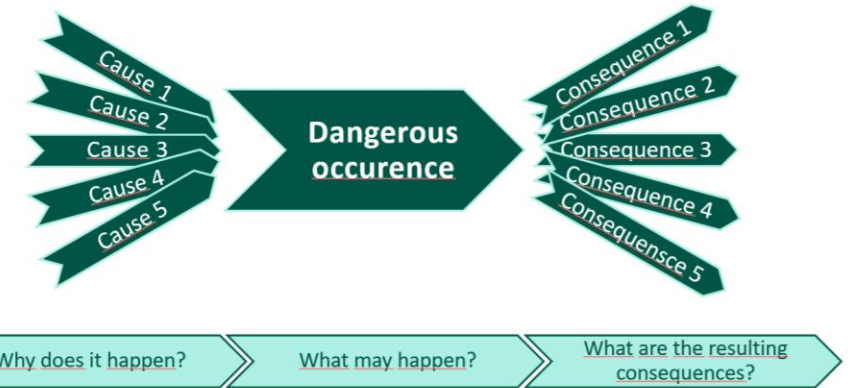
- Safety / security?
- Physical working environment?
- Chemical working environment?
- Biological working
- Ergonomic workload?
- Psychosocial work environment?
- Organisational work environment?



Work in group: Risk assessment

Select 3 events for risk assessment

- Describe what may happen
- Examine why it does happens
- Examine consequence if it happens
- Calculate likelihood x consequence = level of risk



Likelihood	
1 Rare	May only occur in exceptional circumstances – never heard of it
2 Unlikely	Will most likely not happen – have heard of it
3 Possible	May occur – maybe once a year
4 Likely	Will probably occur / is known to occur – several times a year
5 Almost certain	Expected to occur / commonly repeating – weekly or daily

Consequence	
1 Insignificant	Negligible / unnoticeable
2 Minor	Minor injury or illness – e.g. a few days sick leave
3 Moderate	Significant injury or illness – e.g. long term consequences and long term sick leave
4 Major	Major injury or illness – e.g. permanent injury and work incapacity
5 Catastrophic	Death or major permanent incapacity

Level of risk (likelihood x consequence)	
1-4 Low	Acceptable, but risk reducing measures can be considered (cost/gain)
5-9 Moderate	Acceptable if assessed so, but risk reducing measures shall be considered
10-25 High	Unacceptable: risk reducing measures shall be taken

What is a dangerous occurrence?



Why does it happen?

What may happen?

What are the resulting
consequences?

Risk assessment

Likelihood	
1 Rare	May only occur in exceptional circumstances – never heard of it
2 Unlikely	Will most likely not happen – have heard of it
3 Possible	May occur – maybe once a year
4 Likely	Will probably occur / is known to occur – several times a year
5 Almost certain	Expected to occur / commonly repeating – weekly or daily

Consequence	
1 Insignificant	Negligible / unnoticable
2 Minor	Minor injury or illness – e.g. a few days sick leave
3 Moderate	Significant injury or illness – e.g. long term consequences and long term sick leave
4 Major	Major injury or illness – e.g. permanent injury and work incapacity
5 Catastrophic	Death or major permanent incapacity

Level of risk (likelihood x consequence)	
1-4 Low	Acceptable, but risk reducing measures can be considered (cost/gain)
5-9 Moderate	Acceptable if assessed so, but risk reducing measures shall be considered
10-25 High	Unacceptable: risk reducing measures shall be taken