

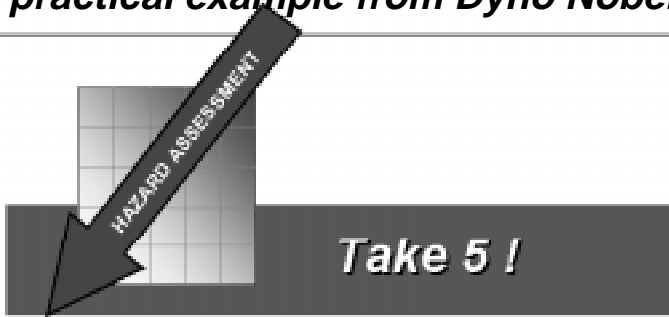
Lecture W10

Applying the 'Take 5' Personnel Risk Assessment



G Ekman

***“Take 5” in practice
a practical example from Dyno Nobel***



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The Take 5 ! Notepad



Cover

Inside Front Cover

For each hazard identified, select the appropriate severity (how bad) and probability (how likely) in the tables below.

How Bad?

Consequence	People	Environment	Property	Cost
1 Minimal	1-2	Small cleanup, minimal disruption	< \$1 k	< 2 hours
2 Moderate	3-10	Cleanup 2-3 days, no treatment required	\$1k - 10k	< 1 day
3 Severe	10-50	Cleanup > 3 days, treatment required	> \$100 k	1-5 days
4 Major	50-100	Cleanup > 1 week, long term cleanup	> \$1M	1-2 weeks
5 Catastrophic	> 100	Cleanup > 6 months, environmental damage	> \$1M	> 6 weeks

How Likely?

Frequency	Once per year	1/10	1/100	1/1000	1/10000	1/100000
Extremely Likely	6	5	4	3	2	1
Very Likely	6	5	4	3	2	1
Likely	4	3	2	2	1	1
Unlikely	4	3	2	1	1	1
Very Unlikely	1	2	1	1	1	1

Proceed to the Hazard Assessment Tool ↓

Notepad Sheets with Watermark

Location:
Date:
Employee Name:
Supervisor Name:

- Write down the task:
- List the main hazards:
- Complete the HAT in the matrix below:

PROBABILITY	Extremely Unlikely	1	C	C	C	C	B
	Unlikely	2	C	C	C	B	B
	Could Happen	3	C	C	B	B	A
	Almost Certain	4	C	B	B	A	A
	Very High	5	B	B	A	A	A
		1	2	3	4	5	
		Minimal	Increased	Severe	Major	Catastrophic	
		SEVERITY					

- List potential controls:
- Tear off this sheet and pass to Supervisor:



Notepad Page 1

Take 5!

Rapid Hazard Assessment

Is anything different?
Has anything changed since you last performed this task?
If so, Take 5! minutes to Take 5! steps!

STOP

- Identify the job you are about to do
- Break the job into steps and identify the hazards involved in each step
- Assess the HAZARDS using the Hazard Assessment Tool (HAT)
- Develop CONTROLS and apply to HAZARDS
- Record the CONTROLS on the notepad



Notepad

Page 2

For each hazard identified, select the appropriate severity (how bad) and probability (how likely) in the tables below.



How Bad?

Consequence	People	Environmental	Property/ Process	Down time
1 Minimal	FAI	Small cleanup, naturally dispersed	< \$1 K	< 2 hours
2 Moderate	MTI	Clean-up cost \$1 K - 10K; environment restored 2 months	\$1K - 10K	< 1 day
3 Severe	LTI	Clean-up < 2 days	< \$100 K	1-14 days
	Temporary Disability	Clean-up cost \$ 10K - 100K; environment restored 2-6 months		
4 Major	LTI	Clean-up < 1 week	\$100 K - \$1 M	16-60 days
	Long Term Disability	Clean-up cost \$ 100K - 1M; environment restored < 2 years		
5 Catastrophic	Fatality	Clean-up < 1 month environment restored 2-5 years	> \$1 M	> 60 days

How Likely?

	Chance	Certain	Probable	Likely	Not Expected	Remote	1 in a Million
Exposure Times per year	1/10	1/100	1/1000	1/10000	1/100000	1/1000000	1 in a million
Constant	24000	5	5	5	4	3	2
Hours	2000	5	5	4	3	2	1
Days	240	5	4	3	2	1	1
Weeks	48	4	3	2	2	1	1
Months	11	4	3	2	1	1	1
Years	1	3	2	1	1	1	1

Proceed to the Hazard Assessment Tool



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Page 3

Notepad Sheets with Watermark



Location:
Date:
Employee Name:
Supervisor Name:

- Write down the task:
- List the main hazards:
- Complete the HAT in the matrix below:

PROBABILITY	Will Happen	5	B	B	A	A	A
	Almost Certain	4	C	B	B	A	A
	Could Happen	3	C	C	B	B	A
	Unlikely	2	C	C	C	B	B
	Extremely Unlikely	1	C	C	C	C	B

A

A CLASS HAZARD
STOP! Inform Supervisor.
Use formal job safety analysis before continuing.

B

B CLASS HAZARD
STOP! Inform Supervisor.
Use procedure or permit.

C

C CLASS HAZARD
Continue with task after completion of Take 5.

	1	2	3	4	5
SEVERITY	Minimal	Moderate	Severe	Major	Catastrophic

- List potential controls:
- Tear off this sheet and pass to Supervisor:

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A Practical Example



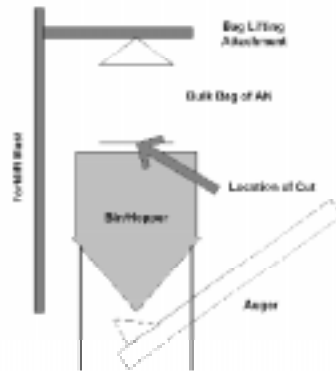
You are working on a bulk site.

With your colleagues, your team's normal task is to load AN in one tonne bulk bags, using a forklift, into a hopper which feeds an auger. Yesterday, the auger broke down.

This morning, a new auger is in place, but the old hopper didn't fit and has been replaced with one which does not have an integral work platform to stand on to cut the bottom of the bag. You cannot reach it from standing beside the hopper.

You see that you could stand on the forklift mast, and hanging onto the mast, reach under the bag and cut it

However, that is a really different method, so you STOP and Take 5!



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