Organizational Learning



Andrew Dingee - Dirtman

- AV-8B Fighter Pilot
- FAA Airbus 320 Instructor
- Airshow Pilot
- Human Factors United Airlines
- Standardization Officer, USMC
- Chairman HF, SPE
- Reviews Investigation for CSB
- Oil and Gas Consultant 8 yrs.
- Author









Bank of America





































What is Organizational Learning?

... is the process of <u>creating</u>, <u>retaining</u>, <u>and transferring</u> knowledge within an organization and <u>modifying the behavior</u> of the workforce to reflect new knowledge and insights.

- Harvard Business Review

How do we create learning?

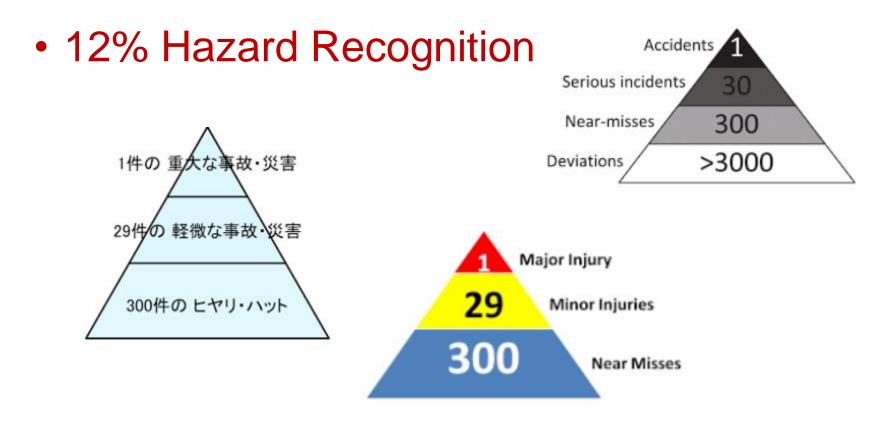


Accidents / BBS / Reporting



Herbert Heinrich





The Heinrich 300-29-1 Model

It's about discovering the pre-accident

The Debrief

But a debrief is not

- An investigation
- A meeting (short)



What is the product of a Debrief?



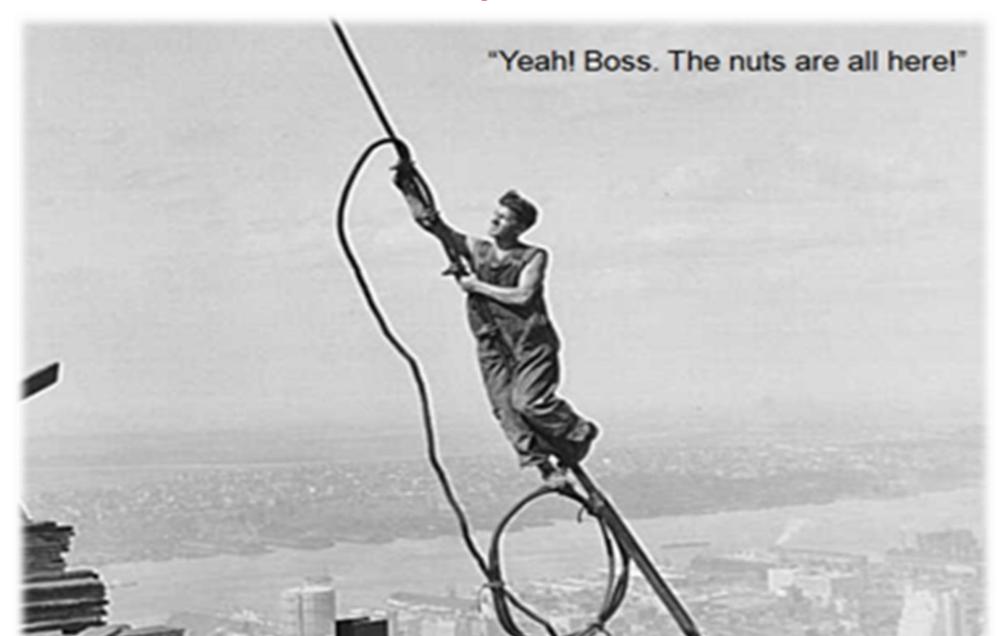
Lesson Learned



How do you conduct a debrief?



Start - Stop - Continue



How – open communication

- Set the tone by being critical of self
- Use "I" not "We"
- Deliver evaluation versus personal criticism (using standards as the baseline)
- Nameless / Rankless regardless of title
- Exchange of ideas
- Short (1 or 2 lessons learned)

"It's not who's right, It's what's right"



Debrief creates the learning for the missing 88%



How do we retain learning?



Safety Alert No. 231 31 May 2005

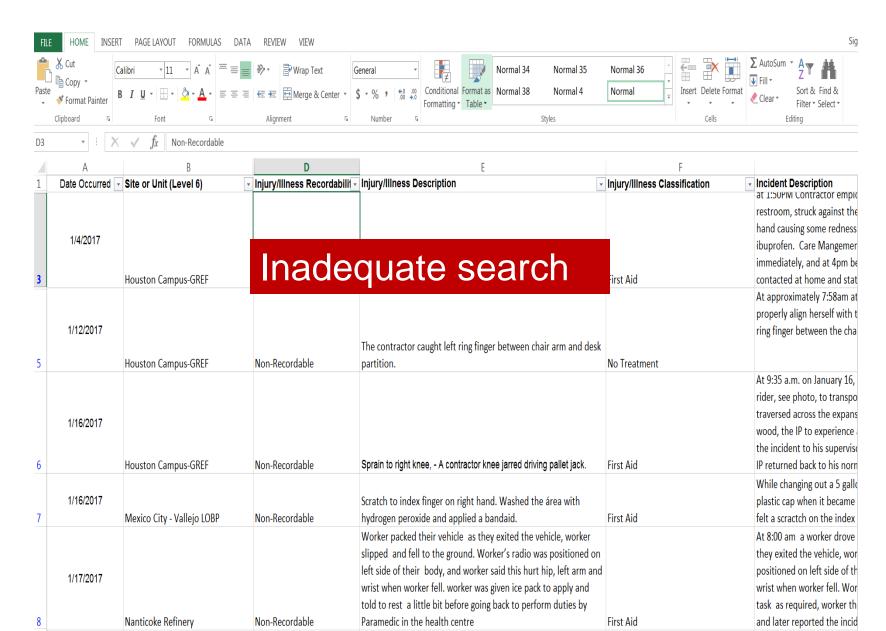
Contact: GlennWoltman (504) 736-2438

Human Engineering Factors Result in Increasing Number of Riser Disconnects

A significant number of accidental riser disconnects have been experienced in deepwater operations during the last five years. Each event had the potential for causing serious well-control issues.

After the first incident in 2000, MMS issued a Notice to Lessees and Operators (NTL),
No. 2000-G07, which clarified 30 CFR 250.107 (a) and 250.400 (July 2002) and prescribed measures
to prevent the accidental disconnect of the lower marine drilling risers from floating drilling rise. The

Or on line LL databases...

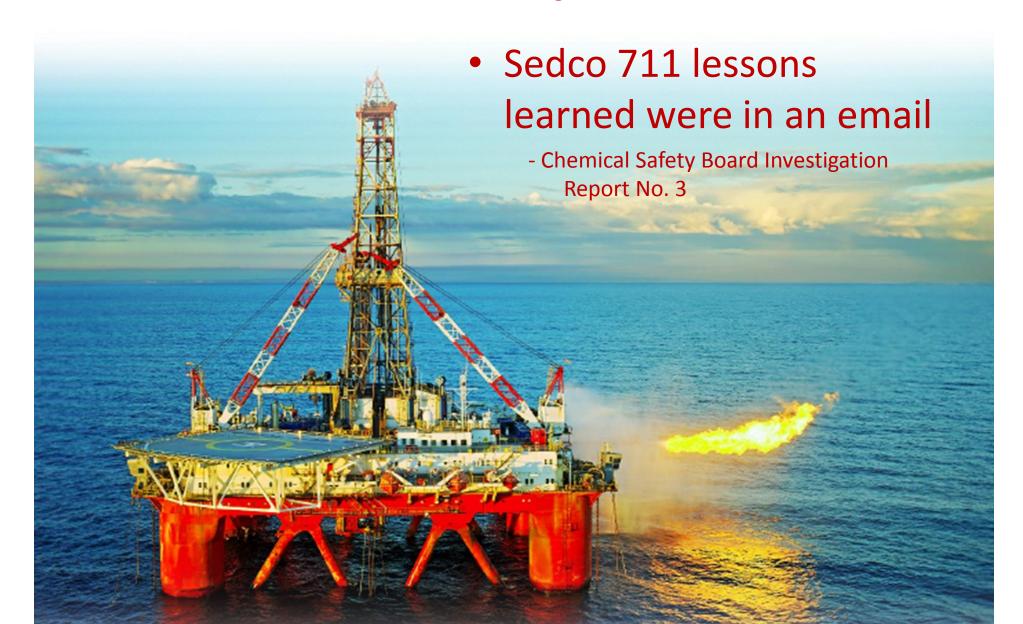


JSAs?

PROJECT DESCRIPTION: U	UNHOOKING SUCTION LINES
------------------------	-------------------------

OD 11 1 7 1 DD	
OR HAZARD	THE HAZARD
Not understanding the job	Ensure understanding by all involved
Not understanding job tasks	Make sure that all job tasks are understood
Broken tools, improper tools, unsafe equip & work area	Do proper pre job inspection
Pinch points, Slips, trips, falls	Properly tied lines, good communication
Falling, pinch points, wrong equip	100% tie off, proper hand placement, right tool for the job
Broken equip, pinch points, caught between	Pre job inspection, proper hand placement, good awareness
Slips, trips, falls	Good Housekeeping & awareness
	Broken tools, improper tools, unsafe equip & work area Pinch points, Slips, trips, falls Falling, pinch points, wrong equip Broken equip, pinch points, caught between

It didn't work April 20, 2010



Characteristics of organizational learning

- Learnings stored in a useable corporate memory
- Individual must be able to retrieve it and use it when the time is right

Operating Procedures

[Cox]......Assign seats ⚠CAUTION: Weight distribution of personnel must be done or boat will not hang evenly. [Cox]......Check personnel for proper seating and harnessing WARNING . Do not lower boat until all personnel are strapped in and secured. Accidental lowering and launching of lifeboats with personnel not strapped in has caused injury and death to lifeboat crew. Incident M/V Coral Princess Nov. 2014 crew member injured and killed when boat was released 2 meters above water. Crew member became projectile in lifeboat suffering severe head trauma leading to death. NOTE: Proper seating is when personnel are in their designated outlined seat. Back of head firmly against head rest with 4 point harness secured snugly over shoulders and waist. [Cox]......Complete Before Lowering boat checklist [AB/MOW]......Inspect all lifeboat crew for proper seating and securing

NOTE: Proper seating is when personnel are in their designated outlined seat. Back of head firmly against head rest with 4 point harness secured snugly over shoulders and waist.

...Notes

[AB/MO	W] Lower brake handle to stop boat
feet a	NOTE: The brake test is accomplished after the boat has been lowered at least 10 and has come to a complete stop (Brake Test IAW SOLAS MSC.1/Circ 1206 and S-MAR-033).
[AB/MO	W] Insert pin on brake handle
	CAUTION: Once safety pin is removed brake handle must be manned at all times to ent accidental operation by others.
[AB/MO	W] Engage winch motor to raise boat
[AB/MO'switches	W] Raise boat to just prior to limit
may injuri past	RNING: Do not use limit switches to stop lifeboat motion. If limit switches fail lifeboat run up davit to the stops this could cause fall wires to part and boat to fall from davit ing personnel in davit area. Incident Ref. M/V Cape Kestrel Oct. 2001 Lifeboat ran limit switches two blocking and causing fall wire to part, lifeboat fell to water and g crewmembers.
[AB]	Insert hand crank into receiver

Why do we fail at debriefing?



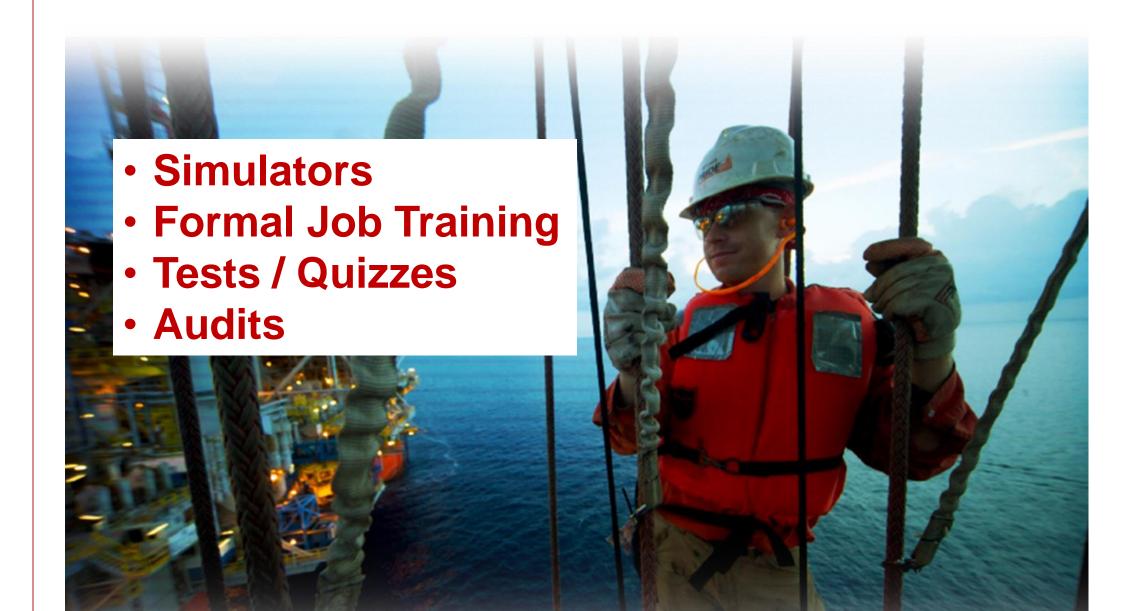
How do we transfer?



Retain = Transfer



How should we transfer?



Summary: Organizational Learning

- <u>Create</u> The debrief (88%) & accident investigations (12%)
- Retain Procedures / Checklists (Standardization)
- <u>Transfer</u> Procedures / Safety Alerts / Corporate Communication

Modify Behavior – Job Training

Questions



"Learning needs to be centered around operational efficiency."

